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The
CHEMIST AND DRUGGIST

Established 1859 28 Essex Street, Strand, London, W.C.2 *Registered as a Newspaper*

No. 2905
VOL. CXXIII

OCTOBER 12, 1935

Annual Subscription (with Diary) 20/-. *Single Copies* 9*d.*

MEGGESON & Co. LTD.

Telephone: BERMONDSEY 1741-1742
Private Branch Exchange

ESTABLISHED OVER 130 YEARS

BERMONDSEY, LONDON, S.E.16

Index to Advertisers, pp. 5 & 6.

Three Fast Selling Lines

Instantaneous Elastic First Aid! Elastoplast Dressings are elastic, adhesive and antiseptic. In handy tins, **3d., 6d.** and **1/-** Boxed in one dozens. Also on attractive display cards, holding six 3d. and six 6d. tins. Trade Prices: **2/-, 4/-, 8/-** doz.

By showing this display material you ensure that you will benefit by the advertisements now appearing in "Woman & Home," "Good Housekeeping," "Modern Woman" and "Home Notes."

Elastoplast Corn Rings. With Elastic strips. Adhesive and medicated. Most comfortable to wear, their elasticity gives freedom of movement. To retail at **6d.** per box of four. Trade Price: 1 doz. cartons **4/-**

Elastoplast

Elastoplast Doctor's Sets contain 117 adhesive, antiseptic and elastic dressings in a variety of sizes, for cuts, boils, wounds, etc. Invaluable for Hospital, Surgery and Factory Dressing Room. Tin Complete: Retail **10/6** Medical **9/-** Trade **7/6**

British Made by

T. J. SMITH & NEPHEW, LTD.

LONDON HULL MANCHESTER GLASGOW

Enquiries to Dept. C, Neptune Street, Hull

Manufacturers of Paragon Brand Surgical Dressings

ORDER THROUGH YOUR WHOLESALER

UGB STOCK GLASS BOTTLES AND OPAL POTS

Present your product ATTRACTIVELY...

U.G.B. Stock designs are unequalled for their purpose, being "the stock line with the proprietary appearance."

A few of these are illustrated below, there being a wide selection of stock containers for your needs.

U.G.B. expert designers also specialise in creating Proprietary packages complete with various types of Screw mouth closures.

Screw caps and glass containers, both manufactured by U.G.B., ensure perfect fitting.

Manufactured by UNITED GLASS BOTTLE MANUFACTURERS · LIMITED

The Largest Manufacturers of Glass Bottles in Europe

40-43 Norfolk St., Strand, London, W.C.2

Telephone : Temple Bar 6680 (10 lines)
Telegrams : "Unglaboman, Estrand, London"

A A

Show Your Goods in the Right Light

WITH

G.E.C.

MODERN SHOP WINDOW ILLUMINATION

The "GECoRAY" system of Shop Window Lighting uses light to the best possible advantage.

The "GECoRAY" system gives brilliant flood-lighting of your displays at the cost of ordinary lighting.

The "GECoRAY" system of Shop Window Lighting can be arranged to provide beautiful and arresting colour-combinations.

"GECoRAY" Reflectors will suit windows of any shape or size.

OSRAM LAMPS are recommended for use with the "GECoRAY" system of Shop Window Lighting.

MADE IN ENGLAND

WRITE *for copy of Folder F6344, describing the "ALL-BRITISH GECoRAY" System of Shop Window Lighting—sent POST FREE on application.*

Guarantee

We hereby guarantee for a period of FIVE YEARS from date of purchase to replace free of charge any "GECoRAY" reflector that checks, peels or tarnishes if used with the lamp specified.

GECoRAY

SILVERED GLASS REFLECTORS

System of Shop Window Lighting

Manufacturers (Wholesale only):

THE GENERAL ELECTRIC COMPANY LIMITED

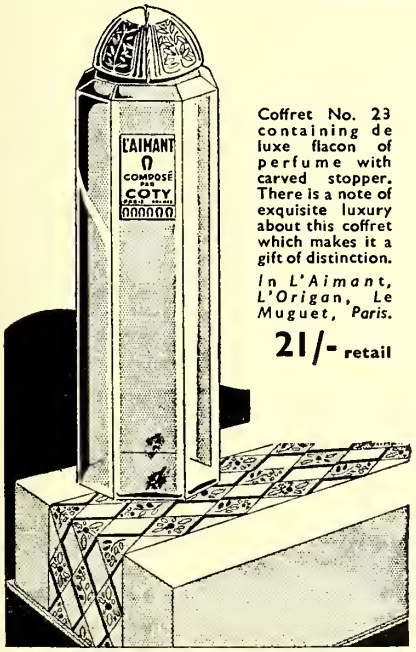
Head Office and Public Showrooms : MAGNET HOUSE, KINGSWAY, LONDON, W.C.2

Branches throughout Great Britain and in all principal markets of the world

For good taste and good business

feature COTY GIFTS

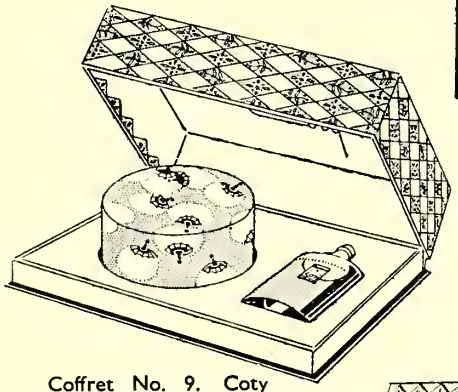
COTY have planned for record Christmas trade this year, with an outstanding range of coffrets and other popular gift presentations. Backed by the large-scale advertising in the leading national newspapers Coty Gifts will be the order of the day. Be sure *your* shop becomes the local centre for Coty Gifts by displaying them in your windows and on your counters together with the specially designed and attractive show material, which will be supplied with your order.



Coffret No. 23 containing de luxe flacon of perfume with carved stopper. There is a note of exquisite luxury about this coffret which makes it a gift of distinction.

In L'Aimant, L'Origan, Le Muguet, Paris.

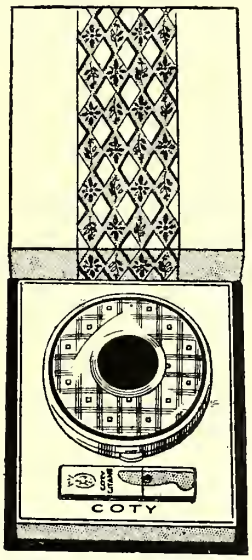
21/- retail



Coffret No. 9. Coty Face Powder in the famous "powder-puff" design box, and a bottle of Perfume to match. In assorted shades and perfumes.

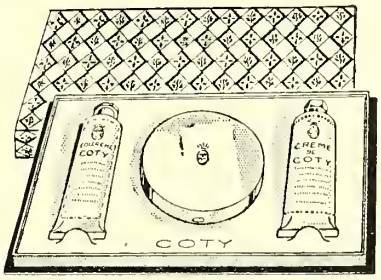
5/- retail

No. 15 with a larger bottle of perfume **8/6 retail**



Coffret No. 13 containing Coty Pressed Powder in an attractive Lacquer Box—the latest handbag accessory—and Gitane Lipstick in Gilt Case.

6/9 retail



Coffret No. 3, a most practical gift, containing Coty Foundation Cream, Cleansing Cream, and a "platinum tone" Coty Compacte.

3/9 retail

Order stock **now**

COTY (ENGLAND) LIMITED, Coty House, 3 Stratford Place, London, W.1.
Telephone: Mayfair 7244-9. Grams: Paricoty, Phone, London.

C.F.H.64

THE INCREASING DEMAND FOR

Em-prote

AND EM-FOODS

MEANS GOOD BUSINESS FOR YOU

Never was public interest in health so great, or the demand for health foods so widespread and consistent.

Everywhere people are realising that right feeding is the only basis of good health.

Years ago, long before this general interest in health and diet had been awakened, we were carefully investigating and testing the values of different foods, and their effect on health. By patient research and careful preparation the famous Em-prote Health foods were evolved. They have long since passed the experimental stage, and are now the trusted mainstay of thousands of regular users.

Every month sees increased sales, every mail brings us letters of appreciation from gratified users.

Em-prote and the complete range of Eustace Miles Health Foods, show an excellent margin of profit to stockists. Write us for price-list and full particulars.

Regular advertising in leading national dailies is sending up the demand. Stock up and don't miss your share.

EUSTACE MILES FOODS LTD., LITTLE DEAN ST., LONDON, W.1. MAKERS OF EM-PROTE EM-BREAD EM-BISCUITS EM-CRISPA EM-BRETS EM-SOUPS EM-SAVOURY EM-CRUMS & EM-NUTFINGERS

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Stafford Allen's EXTRACTS
SOLID & LIQUID

Ext. Cascara Sagrad.
Ext. Belladon.
Ext. Hyoscyami.
Ext. Damianæ

STAFFORD ALLEN & SONS LTD
(Est. 1833)
COWPER STREET, FINSBURY, E.C.2.

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Just to remind you

that it is inadvisable to place orders for next season's Malt Extract and Cod Liver Oil until you have had samples and prices of

Butterscotch BRAND

Malt Extract & Cod Liver Oil

- In bulk or packed. Wholesale, Retail, Home and Export.
- A full range of attractive "own Name" Labels is available.
- Liberal display material and price tickets.
- All worry is avoided when you stock "Butterscotch" brand Malt Extract and Cod Liver Oil.

It has a unique flavour — customers like it — and speedily builds up a valuable trade. We will gladly send you samples and details on request.

The Brand that gives satisfaction made by the firm that gives real service

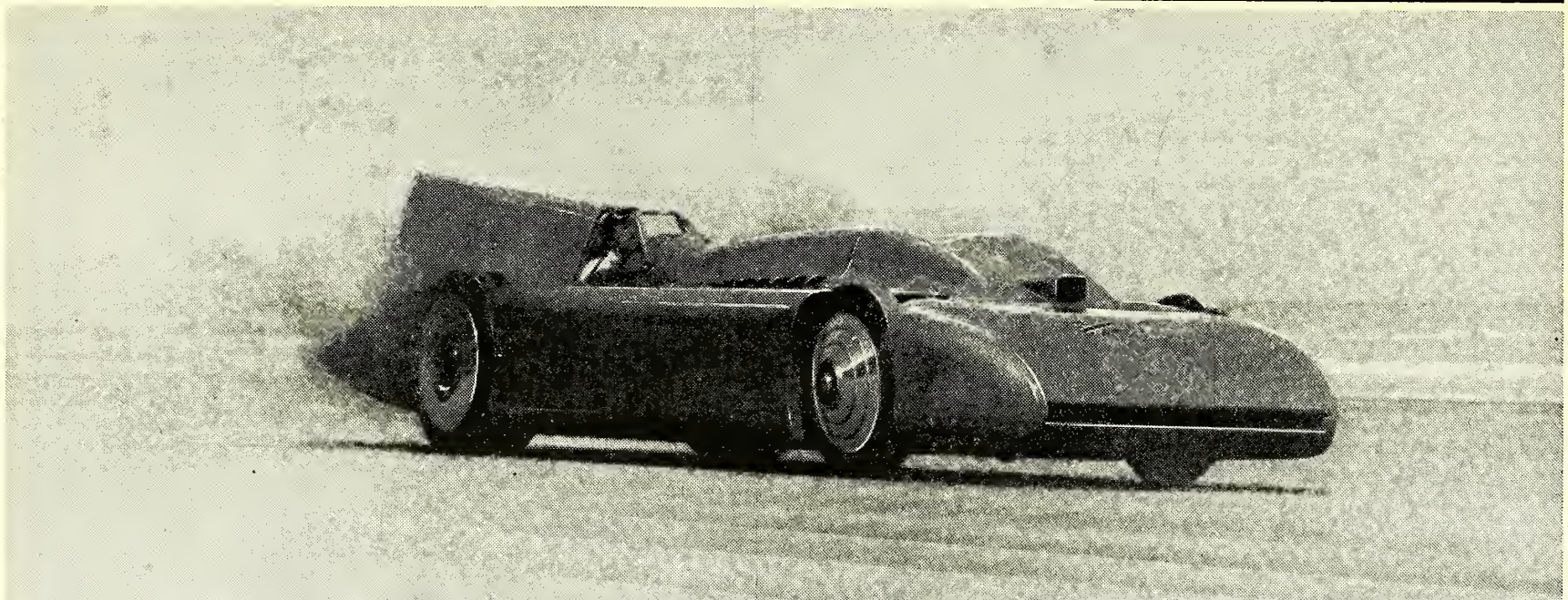
C. TOLKIEN & Co. Ltd.

REMOGEN WORKS - SILSDEN - YORKS.

LONDON: 461a CALEDONIAN ROAD, N. 7. *Phone: North* 5047.

BIRMINGHAM, 11 GOTHIC ARCADE, SNOW HILL, BIRMINGHAM, 4. *Phone: Central* 1159.

If Sir Malcolm Campbell drove "Blue Bird" from Land's End to John O'Groats HOW MANY TIMES WOULD THE ENGINE REVOLVE?



. . . . Less than 1/4 the circulation of "The RADIO TIMES"!

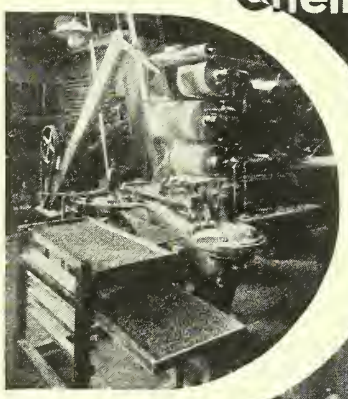
In a flash the monster is past, leaving earth and air aquiver with the roar from its exhaust. Yet it would have to travel more than four times the length of Great Britain before the revolutions of its mighty engine equalled the circulation of "The Radio Times"!—a simple example * of how great a figure 2,400,000 really is. It pays to listen to a traveller when he tells you his firm is advertising in "The Radio Times." And it pays you to display what its advertising columns show.

** You can verify this for yourself, from the following information :—*
Distance from Land's End to John O'Groats . . . . . 872 miles
Engine Speed . . . 3,400 r.p.m. at a road speed of 300 miles per hour.

All enquiries in connection with advertisements in 'The Radio Times' should be addressed to the Advertisement Director, The British Broadcasting Corporation, Broadcasting House, Portland Place W.1. 'Phone : Welbeck 4468

Private Formula work

Pills and Tablets
manufactured under the control of
Analytical and Qualified Chemists



ONE OF OUR LARGE 'PILL MAKING' MACHINES

Below: SPECIAL COATING

Coated or Uncoated

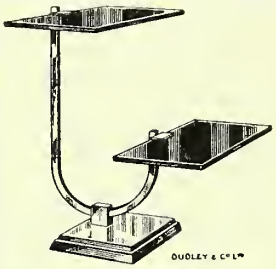
Bulk or Packed

A SECTION OF OUR BOX MAKING AND SHOW-MATERIAL DEPT.

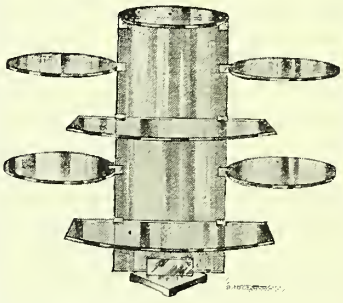
Exceptionally keen prices

COX *Estab. 1839*
ARTHUR H. COX & Co. LTD.
of BRIGHTON

Dudleys for Display Fittings



No. C.D.F. 5278
MODERNISTIC DISPLAY STAND
Suitable for high-class display. Chromium Plated throughout. Complete with 2 Black Shelves. Height 12ins. Size of Shelves 9 × 5 ins.
12/- each.



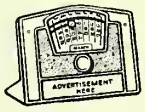
No. C.D.F. 5513
INVISIBLE UNIT DISPLAY STAND
Of very attractive appearance. Centre glass is 18 x 8 ins. and is fitted with five 8 in. circles and two bow-front shelves, size 15 x 5 ins. Complete with Chromium Plated clips and base.
23/- complete.

Send for our Catalogues Nos. CD 1600 & CD 1615.

DUDLEY & COMPANY, Limited
451 Holloway Rd., London, N.7. *'Phone: Archway 1616.*
City Showrooms: 65 FORE STREET, E.C.2

ADVERTISING GIFTS

Very Original



Very Acceptable

Your Name in Gold on Each Article.
Generous Quantity Terms.

Makers: **CALENDOX LTD.**
91 Petty France, Westminster, S.W.1

CHEMIST SIGNS

BUY DIRECT FROM THE MAKERS

ILLUMINATED FROM 65/-
NON-ILLUMINATED FROM 47/6

SEND FOR ILLUSTRATED CATALOGUE

SCINTILLATING SIGN SERVICE
68A COLEBROOKE ROW
ISLINGTON N.1
TELEPHONE CLERKENWELL 1310

A proved quick seller for your winter displays

The common cold is still the chemist's most constant "money-spinner." Penetrol Inhalant and Tablets are in demand throughout the whole of the year, but more especially during the winter months, October to March.

Ever increasing personal recommendation, backed by judicious advertising, has made Penetrol sales grow bigger and bigger each year, whilst the introduction of *Penetrol Tablets* (Ephedrine Co.) last year was an immediate success.

Window shows and counter displays of Penetrol during the winter season quickly show a profitable return. Striking show-matter is sent with every order and strong, persuasive Press Advertising will be appearing throughout the winter. Please co-operate by giving Penetrol a prominent display.

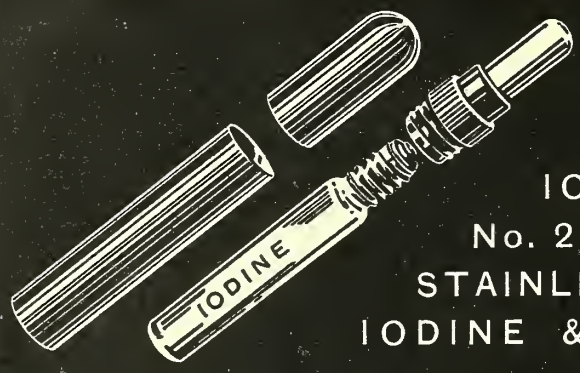
The Public prefers

PENETROL
BRAND
INHALANT & TABLETS

W. B. CARTWRIGHT • LTD., RAWDON, LEEDS

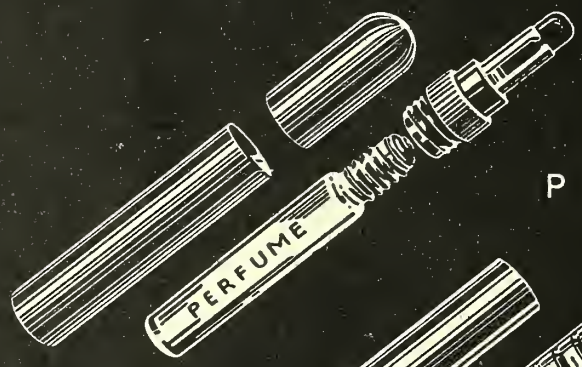
PENCILS HAX 4/- DOZ.

PATENT Nº 428689



No. 1
B.P. TINCTURE OF IODINE & STYPTIC

No. 2
STAINLESS TINCTURE OF IODINE & STYPTIC



No. 3
LIPSTICK AND PERFUME

No. 4
ASPIRIN & EAU DE COLOGNE

ALL REFILLS 2/- DOZ. EXCEPTING TABLETS OF ASPIRIN WHICH ARE 8D. PER DOZ. (TUBES)

ORDER TODAY FROM YOUR WHOLESALER

WHOLESALE HOUSES ONLY SUPPLIED DIRECT BY THE PROPRIETORS OF HAX AND ANTI-THRAX PRODUCTS
EDWARD HACK LTD., 73 TO 78 HIGH HOLBORN, LONDON, W.C.1. HOLBORN: 1000, 6000, 9000

UPSIDE DOWN! YES

THAT'S HOW A SHAVING BRUSH SHOULD HANG

£500 FREE INSURANCE
Policy against Anthrax given with each brush

HOOK screws into wall
Lift brush to use

MADE IN LONDON

STYPTIC in base
Patent No. 400639

NON-SPLIT Handle
Reg. Design No. 784567

No. 4 36/- DOZ.

Anti-Thrax REGD
SAFE BRUSHES

PURE BRISTLE Nos.	1	2				No Styptic or Hanging Device.
	12/-	20/-			Doz.	
BADGER & BRISTLE Nos.	3	4	5	6		No. 3 has hanging device only. Remainder have Styptic as well.
	28/-	36/-	44/-	60/-	Doz.	
PURE BADGER Nos.	8	9	10	11		All with Hanging Device and Styptic.
	60/-	84/-	100/-	124/-	Doz.	
BEST BADGER Nos.	16	17	18			Do.
	140/-	172/-	204/-		Doz.	

ORDER TO-DAY FROM YOUR WHOLESALER

WHOLESALE HOUSES ONLY SUPPLIED DIRECT BY THE PROPRIETORS OF HAX AND ANTI-THRAX PRODUCTS EDWARD HACK LTD., 73 TO 78 HIGH HOLBORN, LONDON, W.C.1. HOLBORN 1000, 6000, 9000

THE LATEST BEAUTY-TREATMENT *from* PARIS

CREME-BLOC *Jabley-Paris*

ANNOUNCE THE APPOINTMENT OF PHARMACEUTICAL PRODUCTS Ltd.

as Distributors for England and Wales

A national selling drive for Creme-Bloc has been planned as a direct result of evidence provided by a preliminary test campaign. This latter clearly indicates popular acceptance and a big demand for this new and revolutionary skin treatment. You will be wise to be well-stocked so as to take advantage of the advertising campaign now running.

Write for special opening order terms, and attractive literature, counter displays, etc.

PHARMACEUTICAL PRODUCTS LTD.
Standard Works
LAWRENCE ROAD - TOTTENHAM, N.15

NATIONAL ADVERTISING COMMENCED OCTOBER 8TH
STRONGLY RECOMMENDED BY BEAUTY WRITERS IN DAILY PAPERS AND MAGAZINES.

The Public are Calling

for

PETAL DUST

"Wherein the subtle savour of the Flowers sublimely dwells."

THE GREAT FLORAL AIR PURIFIER

A Trial will convince you that——

PETAL DUST, when once shown, creates its own demand, and is therefore a valuable adjunct to every "go-ahead" store.

PETAL DUST, when displayed prominently upon your counter, will attract prudent customers by the fragrance of its unique odour, which to-day is of such universal admiration.

Retails in packets at 4d. and 8d. each.
Attractive Advertising matter free on request.

Obtainable through all the usual Wholesale Houses or from Sole Producers :—

The Rosmarine Manufacturing Co.
LONDON, S.E.1.

Women are buying this SOUPLEX "NYMPH" Ladies' Razor!

Actual Size
3" × 2"

Ladies seeing this dainty little shaving outfit cannot resist buying. Complete with soap, brush, razor and Souplex Nymph blade in a charming case of mottled bakelite measuring only 3" × 2" it is handy for travelling and quite indispensable to the modern woman's toilet.

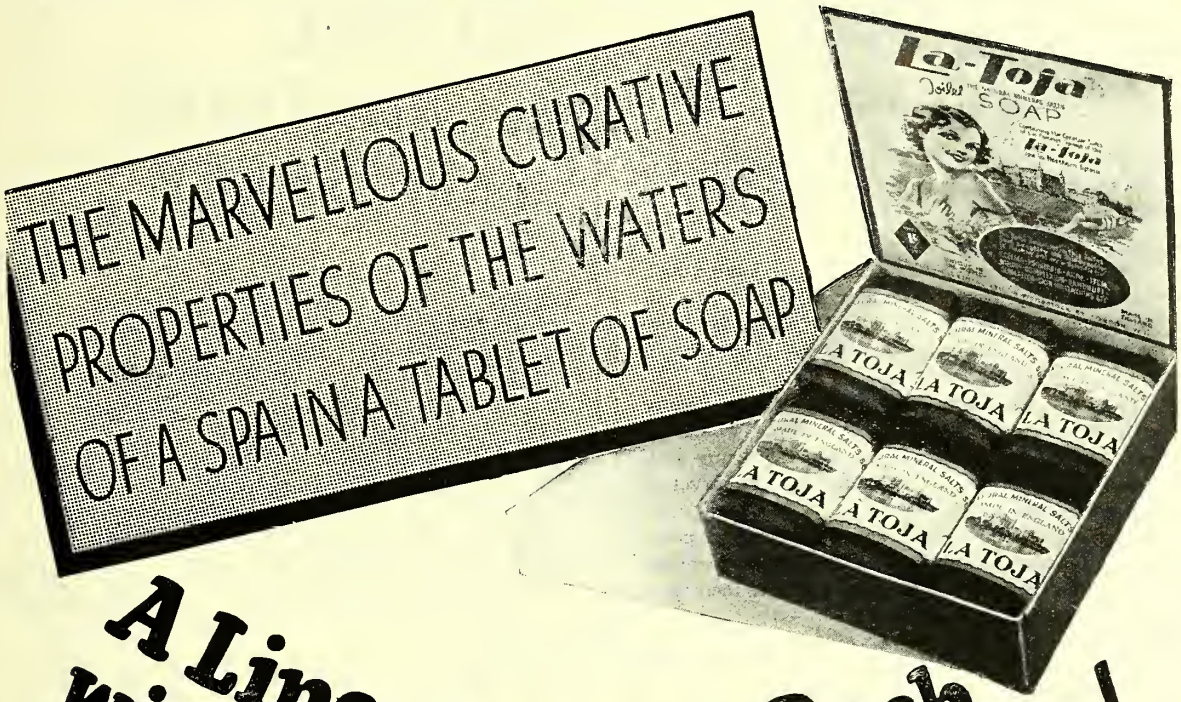
Retail price 3/6

Liberal terms

SOUPLEX LTD.
MORECAMBE

"The Nymph"

COMPLETE
SHAVING SET FOR LADIES



A Line you can Push with Complete Confidence!

La Toja Soap is a high-class Toilet Soap containing a high percentage of the Natural Mineral Salts of La Toja, the famous Spanish Spa, and possesses the marvellous properties of its waters. It is a skin beautifier and is invaluable in cases of Eczema, Acne, Psoriasis, Muddy Complexion, Dandruff, etc.

Our Bonus Offer to the trade!

We have decided to make a substantial Bonus Offer to stockists of La Toja Toilet Soap. You can greatly increase your profits by qualifying for this. Write for details.

OUR ADVERTISING CAMPAIGN

La Toja Toilet Soap which has been on the market for several years is now being advertised to the Public through the medium of the National Press and Free Samples are being widely distributed. Commencing on October 18th newspapers, such as the "Evening Standard" and "Evening News" will be frequently used, and advertising will also be extended to the London Underground Railways.

There will be a big demand for La Toja Toilet Soap. Be prepared to meet the requests of your customers by having stocks ready. Write to us for Display matter, literature for distribution to your customers and trade terms.

La Toja Toilet Soap is entirely British made, but contains the Natural Mineral Salts of La Toja.

Sells at 1/- per Tablet. Packed in Boxes of Three and Special Display Cartons containing 12 Tablets.

La-Toja

THE NATURAL MINERAL SALTS

Toilet SOAP

Remember that in addition to its wonderful remedial properties La Toja Soap is a high-class Toilet Soap—delicately perfumed and absolutely pure.

AJOTAL LTD., 16 WOODSTOCK STREET, LONDON, W.1.

"compuesta no hay mujer fea"

I was turning the pages of a book when I came upon this Spanish proverb. Roughly it runs "A well-turned-out woman is never ugly." This is far more than a piece of Spanish gallantry—it contains a profound truth.

You can turn the proverb round and the reverse holds equally good. A badly-turned-out woman is never beautiful. And yet this business of being well-turned-out is so easy and obvious that I marvel at any woman overlooking it.

Pounds and pounds can be spent on beauty preparations. But that is quite unnecessary. What a woman needs to be lovely is not so much a private income as common-sense.

For example, a very modest outlay on these three things—Luxuria, Skin and Tissue Cream, Beautifying Face Cream—provides a very efficient stock-in-trade for any woman. With these three creams she can satisfy the three outstanding demands of the skin. These are: To be cleansed (Luxuria does this). To be revitalised and nourished (massage with Skin and Tissue Cream gives wonderful results). To be swiftly freed from tiny blemishes (and here Beautifying Face Cream not only lightens and purifies the skin, but is also a most effective powder-base).

So there you are. And I think it will repay you well to point out to every woman customer you meet that these three Harriet Hubbard Ayer creams form a highly efficient minimum beauty treatment—and that you stock and approve them.

BY LILLIAN S. DODGE
President of
HARRIET HUBBARD AYER LTD.
Beauty Preparations
◉
130 Regent Street London W1

NEW YORK · PARIS · MONTREAL

ELECTRIC DECORATIONS mean SALES!

. . . . use and sell

PIFCO

Fairy Lights

Bright decorations are the generators of a desire for gaiety and happiness! What better mood of festivity than these jolly Pifco Fairy lights—in great demand for all trade and party occasions.

In several different styles—yet one quality. Reliable, uniform and best obtainable. Order stocks—*today!*

LIBERAL TRADE DISCOUNT

All with Permanent Contacts, insulated holders, Lamps red, blue, yellow, white and green colours, with flex cords and adaptor, ready for use for any voltage 200 to 250.

Avoid and refuse substitutes.

Most Electricians can supply you.

Wholesale only:
PIFCO LTD., Watling St., Manchester
London Office:
150 Charing Cross Road, W.C.2

RETAIL FROM 3/3 PER SET

1 BRYLCREEM The Perfect Fixative Hair Dressing

2 BRYLCREEM The Supreme Tonic Hair Restorer

It's the Brylcreem 'Double Action' that brings Brylcreem 'Double Sales'

When a man wants the perfect Hair Dressing . . . *recommend Brylcreem.* When a man wants a real hair tonic . . . *recommend Brylcreem.* For Brylcreem contains valuable tonic properties that nourish the roots of the hair and promote hair growth. Brylcreem is the Perfect Hairdressing of all time backed by the biggest and most consistent advertising in the history of the hair cream trade.

Brylcreem displays are proved sellers.

BRYLCREEM

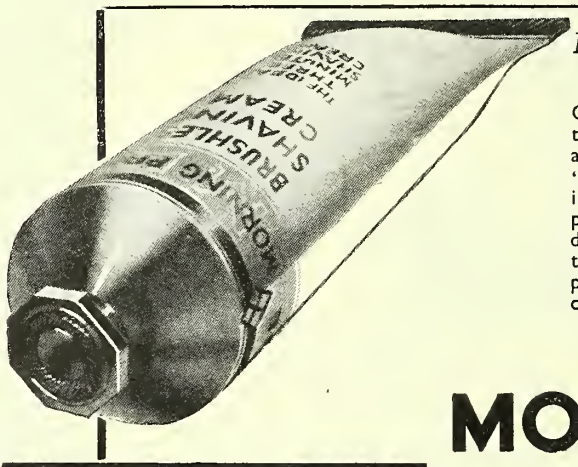
The Perfect Hair Dressing

BRYLCREEM IS A P.A.T.A. LINE AND YOUR PROFITS ARE PROTECTED TO THE UTMOST OF OUR ABILITY

The COUNTY PERFUMERY Co., PARK ROYAL, LONDON N.W.10

NEWS *about the new brushless*

SHAVING CREAM



Extensive Advertising Campaign and £350 Competition ensures success.

On December 7th in the great National Daily newspapers, in the Weekly journals and in Monthly magazines there will appear the first of a great series of advertisements for 'Morning Pride' Brushless Shaving Cream. The news of this immense contribution to shaving comfort and hygiene will penetrate throughout the land. Backed by showcards and display, a live new market will be born as if overnight ; and to make certainty certain, there will be an introductory public competition for £350 worth of prizes. Get in stocks of 'Morning Pride' and prepare for a great sales drive.

WINDOW DISPLAY COMPETITION

1st PRIZE £30 . 2nd PRIZE £20 . 3rd PRIZE £10 and 50 £5 prizes.

The above prizes will be awarded to the retailers who submit photographs of a window displaying 'Morning Pride' Brushless Shaving Cream. Showcards, cartons and display material and particulars obtainable on enquiry from the Distributors.

MORNING PRIDE REGD.

THE RAZOR READY BRUSHLESS SHAVING CREAM

PRODUCT OF FAIRY DYES LTD., PHARMACEUTICAL DEPT.

For particulars of attractive Initial Order terms write

SOLE DISTRIBUTORS · **FASSETT & JOHNSON LTD**

86 . CLERKENWELL ROAD . LONDON . E.C.1

Dr. Page-Barker's

GUARANTEED

Scurf Lotion

The recognised specific for SCURF and DANDRUFF

Sells on its reputation to those who know, and on its guarantee to those who don't.

per 18/- doz.

P.A.T.A.

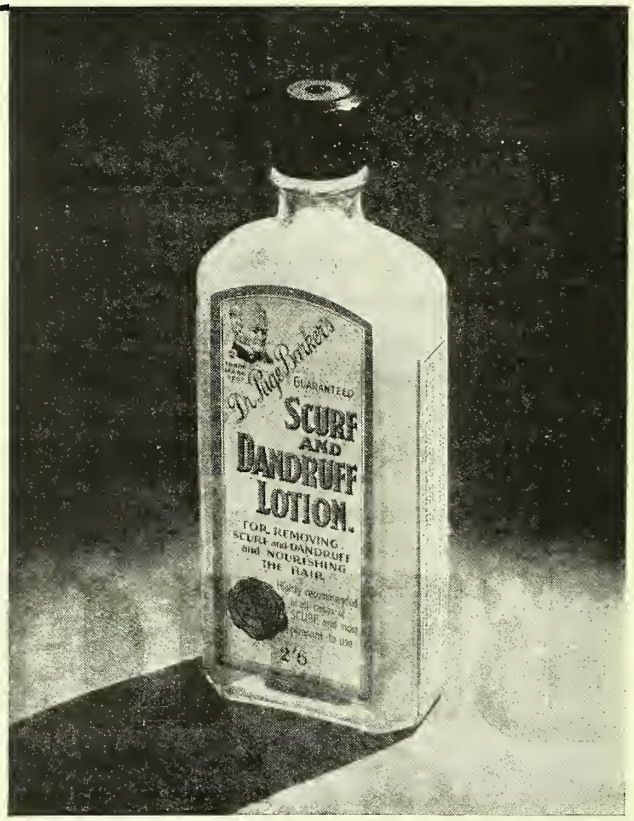
Smart Show matter

A GUARANTEE with every bottle

2/6

THOS. CHRISTY & CO., LTD.

4-12 Old Swan Lane, London, E.C.



Telegraphic Address:
Bismuth, Phone, London.

Telephones:
Ilford 3060 (10 Lines).

Pharmaceutical Specialities (May & Baker) Ltd.

Codes:
A.B.C. 6th Bentley's & Mosse's

Directors:
W.G. Hyde,
N.G. Blenkinsop,
J.M. Fisher,
T.B. Maxwell, (American),

Offices & Laboratories:
Dagenham,

October, 1935

We take this opportunity of drawing attention to the fact that the new Company, whose name appears at the head of this letter, has been created to ensure increased efficiency in the distribution of the Speciality products hitherto sold by May & Baker, Limited.

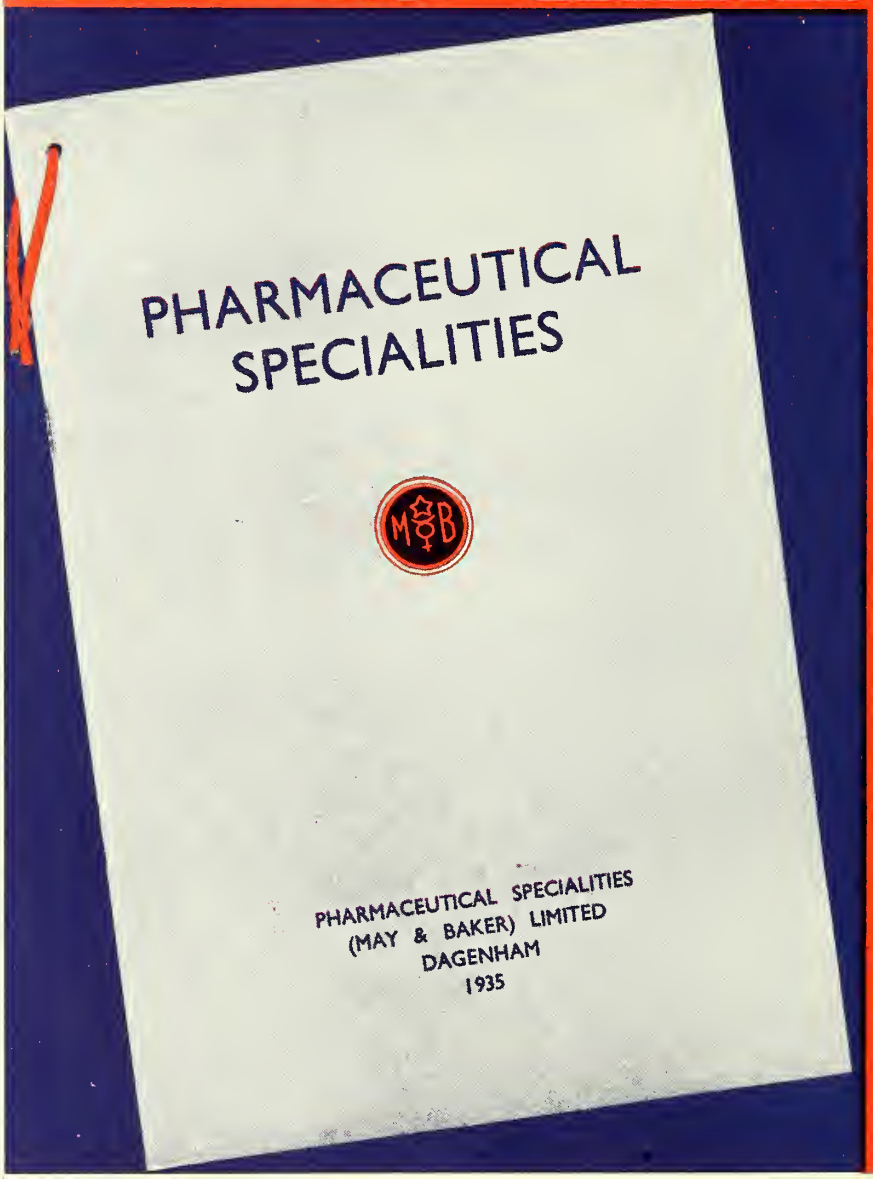
The creation of this new Company does not indicate any dissociation of interest. In fact, Pharmaceutical Specialities (May & Baker) Ltd., have the exclusive use of the trade marks and patents owned by May & Baker Limited, which find application in the manufacture and sale of Pharmaceutical Specialities. The share capital of the new Company is entirely owned by May & Baker Limited and it will rely on the parent Company for its supplies of raw materials.

We hope that this list will provide a concise and convenient means of reference to our products which find an increasing use in all branches of medicine and in the dispensary.

We endeavour in all instances to direct business in our products through the normal channels of trade and it is our intention to increase and build up the co-operation which the pharmaceutical trade has in the past so kindly afforded all May & Baker's Specialities.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD.

HAVE YOU RECEIVED OUR PRICE LIST ?



Let us know if you have not received your copy of the first edition of our list. Further detailed information concerning our preparations will be gladly supplied on request

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LIMITED

DAGENHAM

Telegraphic Address : Bismuth, Phone, London. *Telephones : ILFord 3060 (10 lines)*

AMAMI MANICURE

BONUS OFFER

NETT PROFIT £1 0s. 2d.

on an outlay of £1 4s. 4d.

	Cost Price s. d.	Selling Price s. d.
¾ dozen 6d. Miniature Sets. Natural. (6 Black. 4 Gold)	3 0	4 6
½ dozen 2s. 6d. Manicure Sets. (3 Nat. 3 Col.) - - -	10 0	15 0
1 only 3s. 6d. Manicure Set (Natural) - - - -	2 4	3 6
1¾ dozen 6d. Nail Varnish. (9 C'less. 9 Nat. 2 Rose. 2 Crl.) - - - - -	7 0	10 6
½ dozen 6d. Nail Stones -	2 0	3 0
4 only 6d. Cuticle Remover -	1 4	2 0
4 only 6d. Nail Varnish Remover - - - - -	1 4	2 0
	£1 7 0	
8 only 6d. Miniature Sets (Colourless) (4 Black. 4 Gold) - - - - -	FREE	4 0
	£1 7 0	£2 4 6
Less 10% 30 days	2 8	
	£1 4 4	£2 4 6

NETT PROFIT £1 0s. 2d.

National Advertising in

- NATIONAL & PROVINCIAL NEWSPAPERS
- SUNDAY NEWSPAPERS
- WOMEN'S MAGAZINES

Order today from your usual wholesaler or from:

PRICHARD & CONSTANCE (Mfg.) LTD.
11 Broad Street, London, W.C.2

AMAMI *manicure*

Closing Date – November 30TH

UNILEVER LACKFRIARS, LONDON, E.C.

By Appointment TO H.M. THE KING

NEW VINOLIA SOAP
PREMIER & BABY SOAPS
BORACIC & COLD CREAM SOAP
VESTAL & OTTO SOAPS

VINOLIA

VINOLIA COMPANY LIMITED.
Soap Makers & Perfumers.
General Offices, Laboratories & Works.
BEBINGTON, CHESHIRE.

BY APPOINTMENT TO H.R.H. THE PRINCE OF WALES

SHAVING STICKS
SHAVING CREAM
TOOTH PASTE
LYPSYL SPRINKO
TOILET WATERS & PERFUMES

October, 1935.

AN OPEN LETTER

Dear Mr. Retailer,

While the introduction of new Products, such as the new VINOLIA SOAP, 9d VINOLIA SHAVING STICK and VINOLIA TALCUM, should result in many thousands of new Vinolia enthusiasts, two of the objectives were (1) immediately to increase the rate of sales by concentration on these packs, and (2) finally to reduce the multiplicity of your stocks.

As there is more profit for you on these new Products, may we ask you to give them preference, to supply them on all unspecified orders and, where expedient, instead of the Products which finally they are intended to replace?

If you have any doubt as to our aims and policy, may we ask you to write to us? We will gladly refund postage, but we do urge you to give prominence to new VINOLIA SOAP, new VINOLIA SHAVING STICKS, new VINOLIA TALCUM and any other Products we may link up with this Series, in your counter and window displays, and preference wherever possible with, we hope, recommendation to your customers because of the merit of our Products and the increased profit they provide.

Yours faithfully,
VINOLIA CO., LTD.

F. A. Lawman
Chairman.

AZIADÉ COMPACT PERFUMES

New and improved odours

- Retailing at 1/6 and 1/- each these Compacts are packed in NEW attractive display container boxes, each containing 1 dozen. Priced at 12/- and 8/- respectively they make very handsome non-obstructive Window or Counter displays

Order NOW from your Wholesaler and link up with the greatly increased advertising

No compact genuine without this label

DUMMY DISPLAY CONTAINERS SENT DIRECT ON RECEIPT OF POST CARD TO

AZIADÉ Ltd.
172 Buckingham Palace Road, S.W.1

ALTERATION IN PRICE

On and from the 20th October, 1935, prices for **Butil** will be :—

1/6 size	-	13/6 doz.
2/6 ,,	-	22/6 ,,

SUBJECT TO USUAL QUANTITY TERMS

THE BUTYWAVE CO.
LONDON, S.W.1

Armstrong's

TAPER (A) CORKS

ARMSTRONG CORK CO. LTD.,
ALDWYCH HOUSE, LONDON, W.C.2

"HARLENE"
TOILET PREPARATIONS

"Harlene" Toilet Preparations, famous for 50 years for quality and merit, are ever increasing in popularity. Always backed by an extensive National Advertising Campaign, these real best sellers enjoy a regular and steady demand.

See that you hold ample stocks to meet the demand in your district for these popular lines. A postcard brings full particulars.

EDWARDS HARLENE LTD.
20/26 LAMBS CONDUIT STREET, LONDON, W.C.1

● *Introducing the* ●

"DOCTORS' HEALTH SCALE"

The Ideal Scale for Chemists
No Springs to go out of order

TROUBLE FREE

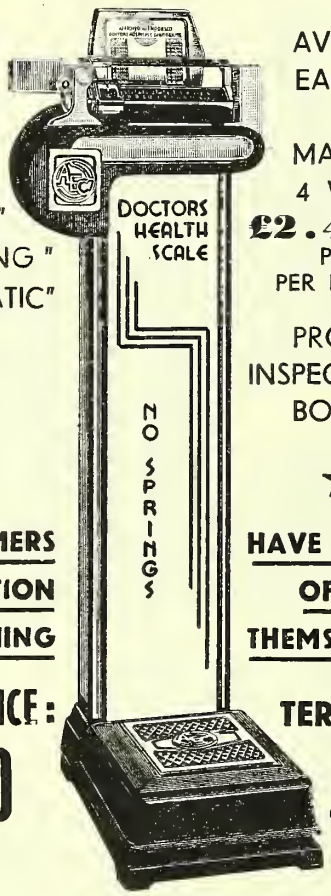
AMAZING EARNING CAPACITY

"NOVEL"
"APPEALING"
"AUTOMATIC"

★

CUSTOMERS FASCINATION WEIGHING

CASH PRICE: £30



AVERAGE EARNINGS 10 MACHINES 4 WEEKS **£2.4.5** PER WEEK PER MACHINE

PROOF INSPECT OUR BOOKS

★

HAVE THE OF THEMSELVES

TERMS: £32 10s.

Week's Trial to Approved Customers. Please cut this out and post to :—

AUTOMATIC MACHINE CO. LTD.
HONG KONG WORKS - WEMBLEY

Please forward to :.....

Address.....

One Doctors' Health Scale Packed Free on One Week's Trial, on the understanding that in the event of non-purchase the machine is to be returned carriage paid to Wembley, and the money earned during trial period to be sent to you.

TOKALON LTD.

SPECIAL ANNOUNCEMENT

Effective with the date of November 15th, 1935, carriage will be paid by the Manufacturers only on all orders amounting to £2 and over, Trade value

The Company's generous Window Display Discounts are not affected

TOKALON LTD.,
Chase Road, LONDON, N.W.10

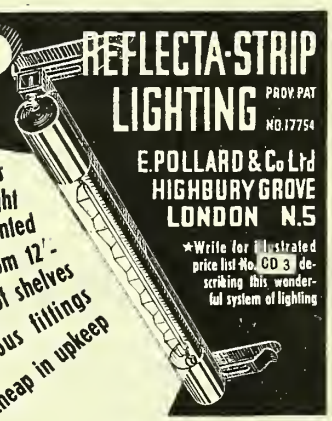
ULSTER RETAIL DRUG TRADE ASSOCIATION

The Executive Committee proposes to issue, shortly, to all Chemists in Northern Ireland, a list of those manufacturers who have agreed to confine the sale of their medicinal proprietaries to recognised Pharmaceutical Chemists and Druggists.

Manufacturers who may have, unwittingly, been overlooked in requesting support for the movement and are desirous of being included in the above-mentioned list, are requested to communicate with the Secretary, Mr. Wm. Blair, 107 Sandown Road, Belfast.

Dated 30th September, 1935.

POLLARD



Standard attachments
Shadowless white light
Easily fixed where wanted
With half-silvered lamp from 12/-
Clips on edge or underside of shelves
Various fittings
Cheap in upkeep

New Packs for Pond's

JARS AND TUBES RE-STYLED TO MATCH THE REST OF THE FAMILY

BY November 1st Pond's two creams will be marketed in the same jade-green colour scheme already adopted for their other products — the big jars matching the smart little "sixpennies" which have proved such a success. Supplies of the new-style jars and tubes of Pond's Creams will be available either direct from the Company or through the wholesaler.

REDUCE YOUR OLD STOCKS

To enable our clients to dispose of their stocks of old-style containers, no press advertising for the new style will be made until after January 1st, 1936, since Pond's will be unable to accept old-style jars and tubes for credit or exchange. We would remind clients that no doubt a demand for the old-style packing will persist for some time after the introduction of the new.

SPECIAL ORDERING FOR OCTOBER

In order to meet demands for Pond's during October — the month previous to the change-over — Pond's will accept assorted orders for all lines to the value of £1, to include old-style jars and tubes, at best prices, carriage paid, providing clients have previously ordered £3 or £5 parcels direct or through wholesalers.

NEW DISPLAY MATERIAL

Very attractive display pieces for the Pond's ensemble will be available about the middle of November. SEE THAT YOU HAVE THEM.

A CONTRACEPTIVE DOCTORS RECOMMEND

Ortho-Gynol—which since its inception has been distributed only through professional channels—is increasingly being recommended and its sales are growing.
Ortho-Gynol is the dependable contraceptive that is effective from the moment of its application. (Douching is contra-indicated for at least 6 to 8 hours.) It is aesthetically acceptable to the large majority. It does not deteriorate in tropical climates. It is independent of the variables—temperature, moisture, pressure.
And finally, Ortho-Gynol is now available in this economical bulk tube, containing sufficient for 15 to 20 applications, with an unbreakable Applicator, for 5/-.
A refill of the same size, but without Applicator, is sold for 4/-
Ortho-Gynol is also available in the original box of 6 complete units, each with disposable nozzle, for 4/6.

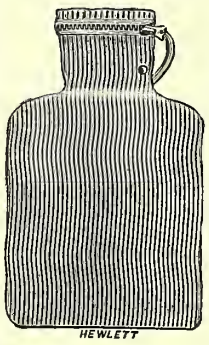
WRITE FOR TRADE TERMS TO:—

Johnson & Johnson (GT BRITAIN) LIMITED SLOUGH, BUCKS

Associated Companies: AUSTRALIA: Johnson & Johnson Ltd., 194/200 York Street, N. Sydney.

S. AFRICA: Johnson & Johnson (Pty.) Ltd., 20 Pritchard Street, Johannesburg.

Representatives & Agents: INDIA, BURMA, CEYLON, SIAM, MALAYA, EAST INDIES: A. A. Burton, P.B. 330, Bombay, India. CHINA & JAPAN: R. T. Down, Post Box 510, Chinese Post Office, Shanghai. SPAIN: A. Amechazurra, Modesto Lafuente 3, Madrid. NEW ZEALAND: Potter & Birks (N.Z.) Ltd., Adco Buildings, 12-24 Lower Federal St., Auckland.



THE "CHARLOTTE" (regd.) HOT WATER BOTTLE COVER

WITH ZIPP FASTENER OR PRESS STUDS
OPENED INSTANTLY TO FILL OR EMPTY BOTTLE

Sizes ...	10″×6″	10″×8″	12″×8″	12″×10″	
	14/3	15/9	17/3	19/-	doz. net.

To fit the moulded hot water bottle, size 11½″×8″, 18/- doz. net.
Supplied in Pink, Light Blue, Dark Blue and Orange Corduroy or Velour

Manufactured only by C. J. HEWLETT & SON, LTD., 35/42 Charlotte St., LONDON, E.C.2

FOR ALL

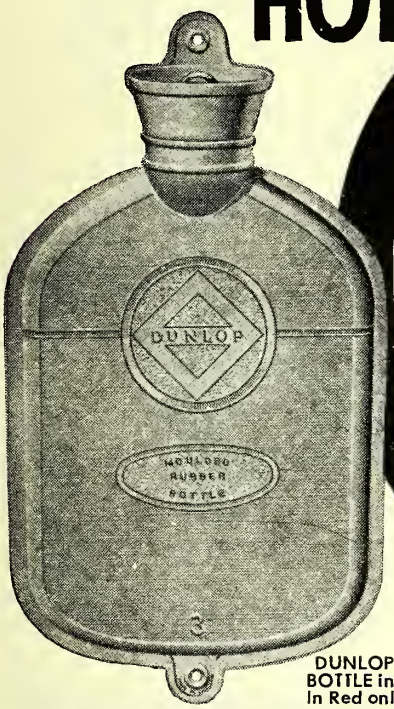
ROBERT BAILEY & SON LTD.
SURGICAL DRESSING MANUFACTURERS
Dysart Street, Great Moor, Stockport, Cheshire
'Phone: GREAT MOOR 3006 (2 lines)
'Grams: "UNDISPUTED, STOCKPORT"
Sentinel House, Southampton Row, London, W.C.1
'Phone: HOLborn 9200
'Grams: "UNDISPUTED OFISERVIS, WESTCENT, LONDON"

SURGICAL DRESSINGS

HOT WATER BOTTLES

that will increase your sales—

DUNLOP



DUNLOP All-Rubber MOULDED BOTTLE in Cellophane wrapping. In Red only (on left). Fixed Retail Selling Price **2/11**

High Pressure Moulded with Fabric Insertion

The DUNLOP Fabric Insertion Bottle (in White or Red) is built on the same principle as the world's toughest motor tyres. Definitely the strongest and most reliable hot water bottle in the world.

Fixed Retail Selling Price **3/11**

Made under British Patents

RED RIDING HOOD BOTTLE

Made under British Patents

Regd. design No. 781,840. Fixed Retail Selling Price **4/6** including red head cover.

ANIMAL SERIES

Made under British Patents

These can be sold to practically every family in addition to their usual hot water bottles. Fixed prices to the Public—

KITTY, BUNNY, TEDDY, DOGGIE, uncovered, each **3/11**

Covered in coloured velvet, each **5/9**

COLOURS: PLAIN RUBBER, Black and White Grained or Medium Brown. VELVET COVERS, Orange, Red or Blue.

The Animal Series is now packed in a new and distinctive box having a cellophane inset in the lid which ensures that the contents remain unsoiled yet at the same time allows them to be clearly seen.

Registered Design No. 766,048

This year the prices of the Dunlop Hot Water Bottle range have all been adjusted to give the dealer a clear 33⅓% profit margin.

Take advantage of these generous terms and stock up with the world-famous Dunlop range.

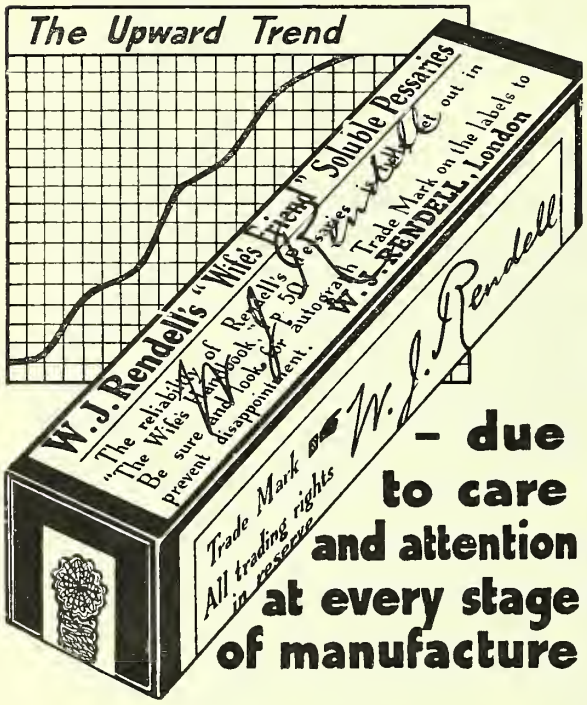
Obtainable from all Factors

DUNLOP RUBBER COMPANY LTD. (General Rubber Goods Division), Cambridge Street, Manchester.

5HWB2/1

C.F.H.

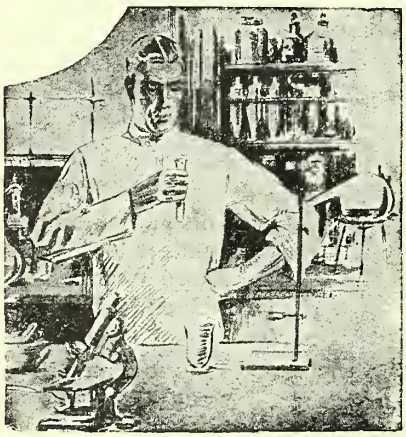
An Ever-Increasing Demand –



– due to care and attention at every stage of manufacture

The Chemist can be satisfied that he is offering the one contraceptive which sets the standard for purity and efficacy.

The demand is there. Make sure you obtain your full share of this important business.



The use of our latest showcards and booklets in conjunction with the sale service now offered is the direct way of increasing sales.

W. J. RENDELL, LTD.
LONDON

SOL-VO
SELLS ITSELF

SOL-VO gives a good margin of profit to the Chemist and is economical for the customer because it contains nearly three times as much paper as the "so-called" cheap varieties. It pays to stock and display SOL-VO. Why not give it a trial?

FORD, SHAPLAND & CO. Ltd.
GT. TURNSTILE, HIGH HOLBORN,
LONDON, W.C.1
Telephone: Holborn 4695.

FOR WINTER (CH)ILLS
A
Reliance
SEAMLESS MOULDED
HOT WATER BOTTLE
IS PRESCRIBED BY THE BEST AUTHORITIES
THE PRESCRIPTIONS RETAILING FROM 1/6 ARE DISPENSED BY YOU, FROM
RELIANCE RUBBER COMPANY LTD.
CREMORNE WORKS, LOTS ROAD, LONDON, S.W.10 (2

You need only stock the full range of Southall's Sanitary Towels to satisfy the needs of all of your customers.

- The "ORIGINAL" and most popular.
- The "CELTEX" soluble, easily disposed of.
- The "K" made entirely of absorbent cotton wool, with very soft cover.
- The "COMPRESSED" for travelling. A very popular line.

SOUTHALLS (BIRMINGHAM) LTD.

HOT WATER BOTTLE COVERS

NOW READY—NEW SEASON'S RANGE

OF ALL COVERS FOR MOULDED AND REINFORCED BOTTLES——

We offer a comprehensive selection which will cater for the requirements of all classes of trade, but do not fail to see

H. 14A VELOURS COVERS, with Special Display Device, as illustrated

——THIS IS THE BEST COVER MADE——

And quite new, **H. 164 "GOLDEN FLEECE"**

—100% Pure Wool, cosy and inexpensive

Other qualities available include Fancy Molleton, Corduroy, Plush, Satin and Cheap Velours, and several novelties

SOLPORT BROTHERS LIMITED

184-192 Goswell Road, London, E.C.1

WRITE DIRECT FOR NEW PRICE LIST AND SAMPLES AND THEN ORDER THROUGH YOUR WHOLESALER

FOR SURGICAL APPLIANCES OF QUALITY

GO TO

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OF

TWICKENHAM

MANUFACTURERS OF

SPRING & ELASTIC TRUSSES, LADIES' & GENTS' ABDOMINAL & SUPPORTING BELTS, ELASTIC HOSIERY (SEAMED & SEAMLESS), SUSPENSORY BANDAGES, AND ALL KINDS OF APPLIANCES

THE

R. H. HEWARD COMPANY

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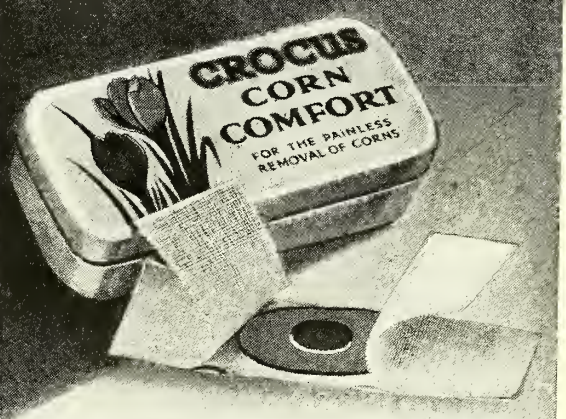
TWICKENHAM - - MIDDLESEX

'Phone: Popesgrove 2094 'Grams: Beltruss, Twickenham

A New Line in Corn Plasters

'CROCUS'

CORN COMFORT



ATTRACTIVELY PACKED IN DECORATED TIN BOXES CONTAINING 6 PLASTERS OBTAINABLE FROM YOUR USUAL WHOLESALER

LIBERAL TERMS

W. MATHER LTD.

MANCHESTER

BARTLETT'S

HAPPY FEET BRAND

IODINE SOCKS

6d. PER PAIR **4/-** PER DOZ.

ALL SIZES

OBTAINABLE FROM ALL WHOLESALERS

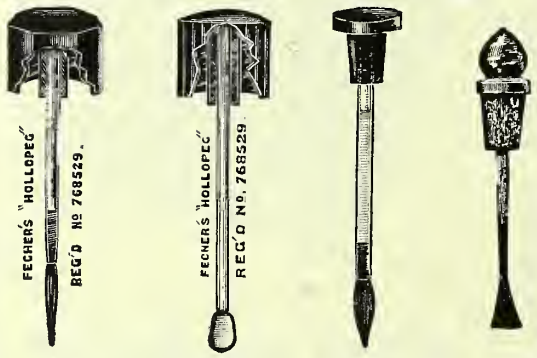
BARTLETT DISTRIBUTING COMPANY LTD.
DIAMOND HOUSE
37 HATTON GARDEN, E.C.1

CAMEL HAIR PENCILS AND IODINE BRUSHES

LOOSE or MOUNTED in BAKELITE, RUBBER or CORK

◈ ◈

We are Actual Makers with 40 years' experience. Large Stocks. Perfect Fitting.



M. J. FECHER, LTD.
10 Dod St., Limehouse, E.14
Telephone: EAST 3228

EMBOSSED SEAL LABELS.

JAMES TOWNSEND AND SONS, EXETER.

LONDON OFFICE: 29, FARRINGDON STREET, E.C.4.

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Label & General Printers,
DOMINION HOUSE,
BARTHOLOMEW CLOSE,
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Printers to the Drug Trade for over 40 years.

Labels imprinted BY RETURN.

CASH REGISTERS "NATIONAL" ETC.

ALL KINDS—TOTAL ADDERS, TICKET ISSUERS, PRINTERS, Etc., BOUGHT — SOLD — EXCHANGED REPAIRED (Estimates Free)—EASY TERMS

AMALGAMATED BUSINESS MACHINES Ltd.
78 Long Lane, Smithfield, E.C.1
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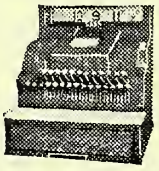


OVER 200 MACHINES (fully guaranteed 10 years) TO CHOOSE FROM. Write, call or phone.

SATISFACTION GUARANTEED

HAX Aspirin

LOWEST PRICES IN ENGLAND

FULL 5 GRAIN B.P. STANDARD

8D per doz.
GLASS TUBES
OF 10 TABLETS
PACKED 3 DOZ.
IN DISPLAY BOX

2/- Doz. bottles of 30 Tablets
4/- Doz. bottles of 70 Tablets
8/- Doz. bottles of 150 Tablets
PACKED 1 DOZ. IN DISPLAY BOX

WHY PAY MORE

ORDER TODAY FROM YOUR WHOLESALER

WHOLESALE HOUSES ONLY SUPPLIED DIRECT BY THE PROPRIETORS OF HAX AND ANTI-THRAX PRODUCTS EDWARD HACK LTD., 73 TO 78 HIGH HOLBORN, LONDON, W.C.1. HOLBORN: 1000, 6000, 9000

It will pay you to buy DIRECT from the Manufacturers

Dania

REGD. BRAND

COMPRESSED TABLETS

If you are wanting any variety of compressed Tablets—true to formula—of the purest materials—finest finish and at lowest prices consistent with quality, then send an enquiry to :—

RICHARD DANIEL & SON, LIMITED

Phone • Derby 2222 (3 lines) • Grams. • Dania, Derby • MANSFIELD Rd. DERBY •

MAKERS TO THE TRADE—ESTABLISHED 1860

SPEEDY, EFFICIENT, TROUBLE-FREE FILLING

OF SPRINKLER NECK BOTTLES, WITH LIGHT OR HEAVY LIQUIDS

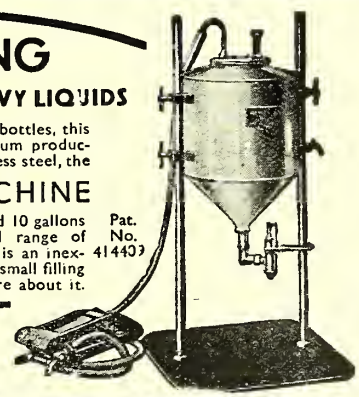
Although primarily placed on the market for filling sprinkler-neck bottles, this machine is equally efficient with other containers and gives maximum production at minimum costs. Simple to use, sturdily constructed of stainless steel, the

LAUDER 4a Compressed Air FILLING MACHINE

takes up little room, is readily portable and is highly recommended by users in all parts of the world. All fittings are chromium plated; there is no internal mechanism. The self-contained valve provides instant cut-off.

This machine is made in 3 sizes (2, 5, and 10 gallons capacity), complete with pump and range of nozzles (ordinary and canulæ). This is an inexpensive machine which can solve your small filling problems. Ask us to tell you more about it.

Pat. No. 414439



L. T. LAUDER 46 St. Martins Avenue, LEEDS 7

Phone : LEEDS 43039. *Wires: LAUDER, LEEDS 43039.*

PRECIPITATED CHALK

LIGHTEST—MEDIUM—DENSE.
And All Other Grades To Suit Every Purpose.
Prepared Chalk B.P. and Powdered Talc.

'Phone: Mansion House 7300. Tel. Add.: "Levermore, Phone, London."
A. LEVERMORE & CO. LTD.
110 CANNON STREET, LONDON, E.C.4.
ABC Codes. 6th Edition.

GUMS TRAGACANTH AND ARABIC
As Imported or Finely Powdered
ALL GRADES
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Telephone: Mansion House 5094

3/3 per 1,000
ALL SIZES
AZYMA CACHETS
FRENCH, MORSTADT, and the DRY CLOSING SERIES
Special quotations for quantities and for printing
Write for Samples to
CICERO S. CLARK, *Sole Agent*
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Collapsible Tubes.
FILLING and CLOSING
UNDERTAKEN with Pastes, Plastics, Greases, Glues, Solutions, etc., etc.
Customers can supply their own tubes & materials
FORMULÆ MANUFACTURED TO REQUIREMENTS
Technical Advice FREE. If you have anything you want tubed—write us!! All work supervised by B.Sc.
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GARFIELD TEA
FOR CONSTIPATION
Order from your Wholesaler
GARFIELD TEA CO. 44 Foxbourne Road, BALHAM, LONDON, S.W.17

CACHETS "FINOT"
(*White or Coloured*)
With inscriptions in any desired tint; also Plain or Embossed.
"A distinction all their own."—*C. & D.*
"Perfection of Cachets."—*Lancet.*
These Cachets are especially adapted for Headache, Neuralgia and other powders.
COOPER SON & CO. LTD., 80 Gloucester Road, SOUTH KENSINGTON
In 17 Sizes to fit the various types of Cachet Machines.

COMPRESSED TABLETS
COATED or UNCOATED
Standard or Private Formulæ
Wholesale Buyers write
T.H.WALTON & Co.Ltd.
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WE CAN HELP YOU
in furnishing you with Surgical and other sundries to give a high average profit!
Enquiries will receive our prompt expert attention
REYNOLDS & BRANSON Ltd., 13 Briggate, LEEDS 1
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INCREASE YOUR DEVELOPING AND PRINTING SERVICE!
MAKE USE OF OUR REALLY USEFUL SERIES OF D. & P. BOOKS. ALSO OUR PRINTED AIDS TO SELLING
INTERESTING RANGE OF SAMPLES POST FREE
BURALL BROS., WISBECH, Cambs.

MAWSON FILTERS
always give satisfaction. They eliminate all risk of water contamination. Simple in construction, they do their job efficiently at a minimum cost. They have a world-wide reputation. May we send you our descriptive list? Overseas enquiries specially invited.
The MAWSON FILTER Co., 20 Grainger St. W., Newcastle-on-Tyne

RIGHT ABOUT FACE!
6 for 6D.
W. R. SWANN & CO. LTD.
PENN WORKS, SHEFFIELD 6

FITS ALL 3 PEG HOLDERS

Eau de Cologne . . . Lavender Water
ALL TOILET PREPARATIONS
Low, Son & Haydon, Limited
5 GT. QUEEN ST., LONDON, W.C.2 COURT
TELEPHONE: HOLBORN 4007 EST. 1790 PERFUMERS

OPTICAL TUITION
FOR THE
S.M.C., B.O.A. and N.A.O. DIPLOMA Examinations
Particulars:—
C. A. SCURR, F.S.M.C., F.B.O.A., F.N.A.O., F.I.O., F.C.O., M.P.S.
50 HIGH STREET, BARNET, LONDON, N.

SHADEINE
FOR TINTING GREY HAIR
This popular article is largely advertised and stocked by all Wholesale Houses.

Trial size 8d., per doz.	6/-
1/4 size, per doz.	12/-
2/6 size, per doz.	24/-
3/9 size, per doz.	36/-

The SHADEINE Co., 49 Churchfield Road, Acton, W.3.

MUSTEROLE BRAND
MUSTARD OINTMENT
Display **SHOWCARD** and obtain
INCREASED SALES
THOS. CHRISTY & CO. LTD., OLD SWAN LANE, E.C.4

BRITAIN'S MANUFACTURING RESOURCES

were advertised to the world's markets through her greatest engineering achievement.

Individual manufacturers can reach those markets as effectively through the columns of the "News of the World."

THERE ARE 3 MAJOR POINTS:—

1. "The Sunday press is a complete sales campaign in itself, unrivalled because the reader is at leisure to study and respond to the advertisements" says the "Advertiser's Weekly."
2. Readers of Sunday newspapers comprise one in three of the population.
3. The "News of the World," with its sale exceeding 3,350,000, covers nearly 25% of them every issue.

The far-seeing merchant contemplating sales extension through advertising cannot secure a more complete appeal at a more economical rate (*less than ¾d. per single column inch per* 1,000 *copies*) than through the

NEWS OF THE WORLD

The most powerful sales medium in advertising

30 BOUVERIE ST., LONDON, E.C.

SALES LARGELY EXCEED 3,350,000 COPIES PER ISSUE

An

N.B. Clay & Abraham Ltd. hereby state that their new type Iodine Pen has been declared by the MOST EMINENT COUNSEL as not infringing any existing Patent.

Don't miss Sales! Don't be Bluffed!

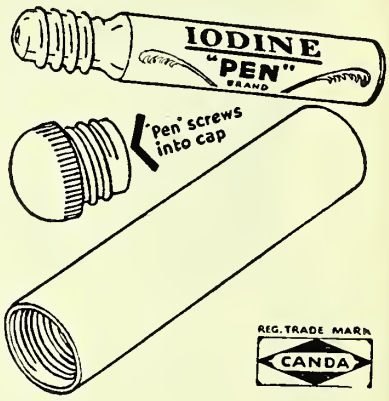
Here is an Iodine Pen which introduces a new standard of value—a new idea in compactness. Though so amazingly cheap this new "Canda" product lacks nothing in appearance or in efficiency. It has the same attributes of its predecessor, the original "Canda" Iodine Pen. It provides clean, handy, ever-convenient first-aid at a price which opens up a market so extensive and productive that no chemist can afford to ignore it.

Iodine

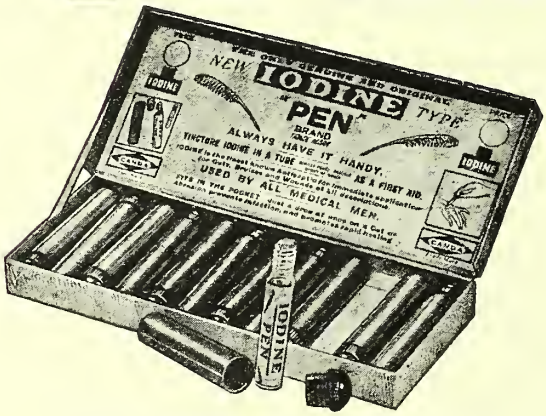
This new "Canda" Pen is unique in its construction. It consists of (*a*) the actual glass "Pen" for direct application, (*b*) an attractively coloured case, and (*c*) a "two-in-one" moulded screw top which serves both as a cap for the glass containers and the case. This new construction makes the iodine quickly available, yet perfectly safe and completely free from leakage.

Hundreds of Chemists ask us how this can be done.

Send for a box and see for yourself.



"Pen" BRAND



Also supplied for MOSQUITO Application. Each in distinctive coloured container. Packed in attractive boxes for counter display —one dozen per box.

PRICES: Single Boxes - - 2/3 per doz.
3 dozen - - 2/0 per doz.
6 dozen (Carriage Paid) 2/0 per doz.

These prices are for Great Britain and Northern Ireland only.

Every customer can spare an extra threepence. You will realise that there is an immediate and extensive market for such a product. Here is the pen which will soon be in everyone's pocket. No sooner seen than sold! The ideal "pick-up" article for the counter.

for 3d

Also the original "CANDA" Iodine Pen in metal Tube.

(Protected retail price 6d.)

Manufactured and patented only by **CLAY & ABRAHAM Ltd., Liverpool,** makers of the original Iodine "Pen" (Brand)—and can be obtained from your usual wholesaler. Also from **Thomas & Linton Ltd., 4 Gray's Inn Road, London, W.C.** Export Agents except for New Zealand and Australia:—**W. A. Jones Ltd., Maryland Street, Liverpool.**

C.L 35a

Get ready for Winter...

AN IODINE LOCKET YOU CAN SELL BY THE HUNDRED

The only locket which does not diffuse iodine until pierced by the customer

Last season chemists everywhere welcomed the opportunity Canda Lockets provided to profit from the extraordinary popularity of this method of Iodine therapy — for the Canda Locket solved the difficulty of stocking an article which diffused a tarnishing vapour.

Canda Lockets *will not diffuse* Iodine until the actual container is pierced with a pin by the customer or chemist. The centre hole in the attractive moulded container must be used for this purpose.

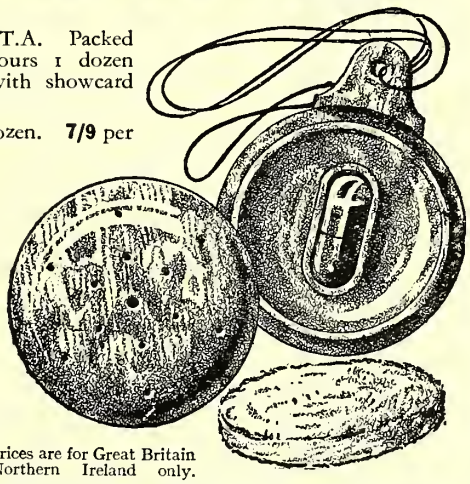
Canda Lockets are guaranteed not to lose iodine for six months while in stock. Suspended from the neck by a thin cord, concealed beneath the clothing, or suspended below the mouthpiece of a telephone, a Canda Locket remains effective for 9 to 12 months — expelling its valuable and efficient prophylactic vapour against the infection of winter ailments.

IODINE LOCKET

PAT. 432312

Price **1/-** each P.A.T.A. Packed in 7 assorted colours 1 dozen in display outer with showcard and leaflets.

Prices:—**8/-** per dozen. **7/9** per dozen for 3 dozen carriage paid. **7/6** per dozen, in gross lots.



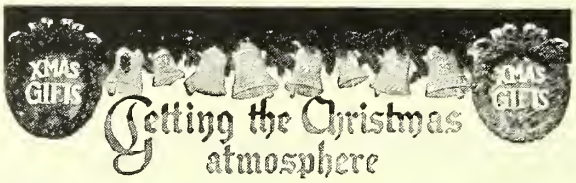
These prices are for Great Britain and Northern Ireland only.

CANDA

Registered Trade Mark

Manufactured and patented only by **CLAY & ABRAHAM Ltd., Liverpool,** makers of the original Iodine "Pen" (Brand)—and can be obtained from your usual wholesaler. Also from **Thomas & Linton, Ltd., 4 Gray's Inn Road, London, W.C.** Export Agents except for New Zealand and Australia:—**W. A. Jones Ltd., Maryland Street, Liverpool**

CL 38



CATALOGUE of DISPLAY NOVELTIES

Make this Xmas a bumper year!—start planning your Display and Decoration NOW. This magnificent Catalogue portrays brilliant material for use in the forthcoming festive Season. Remember King's List No. 1530 for a complete range of New and Exclusive Christmas Novelties!

44 Pages in Colour!

Compiled with the sole object of suggesting the *right* material for *successful* Display results. Ask for List No. 1530 offered to you entirely Free of all charge!

J. C. KING, Ltd.
42-60
GOSWELL ROAD
LONDON
E.C.1

CLERKENWELL 2316

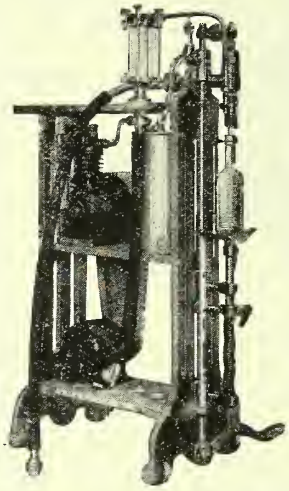
New Designs in Glitter Tickets and Showcards. Brilliant Crepe Papers. Chromium Display Papers. Window Papers. Chromium Festoons. Witch Balls. Pelmets and Friezes. etc.

Giant and Natural Holly. Glitter Powders. Gold and Silver Roping. Electric Lamp Festoons. Lanterns. Tinsel Decorations and a host of other really useful, fascinating Novelties.

Write for List No. 1530

ROBERTS' PATENT

"LEO" VACUUM FILLER



for Glass, Stone, and Tin Bottles. Fills all sizes from drachm to quart—long, short or sprinkler neck.

Clean and Rapid
No Over Filling
Broken Bottles Rejected
Easy to Clean
Self Rinsing

WRITE FOR PARTICULARS

Roberts' Patent Filling Machine Co.
T. ROBERTS, Proprietor,
33 Roundcroft Street, Bolton, Lancashire
Makers of every description of Bottle Filling and Shallow Jar and Tin Filling Machine for the Chemists' use.
ALL RIGHTS RESERVED

British Optical Institute
LIMITED
FERN LODGE, GROVE ROAD, BRIXTON, S.W.9

Complete Training for the Sight-Testing Optician

Full-time and Part-time Courses, covering the preparation for both the F.B.O.A. and F.S.M.C. examinations, and including clinical work, are conducted under the personal direction of the Principal, Mr. G. W. COLEBROOK, F.B.O.A. (Hons.), F.S.M.C. (Master's Prizeman), assisted by Mr. E. W. WOODRUFF, B.Sc., F.B.O.A. (Hons.).

Recognised by the B.O.A. as a training centre for all sections of the examinations.

For full particulars apply to: The Principal.

WE SUPPLY

DECORATED TINS

FOR PACKING

OINTMENTS

AND OTHER PRODUCTS.

SAMPLES AND PRICES UPON REQUEST.

THE CALDICOT TIN STAMPING WORKS LTD.
CALDICOT, Nr. CHEPSTOW, Mon.

GET A LINE ON GOOD BOXES

ROBINSONS
OF CHESTERFIELD

will quote quickly
for round, square & folding
cardboard boxes

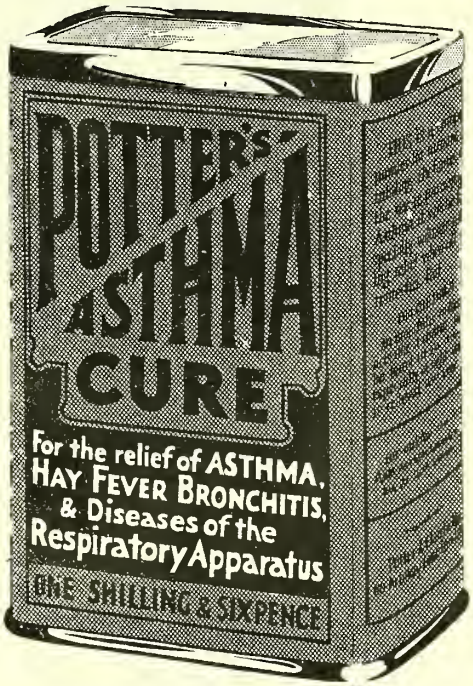
CLERKENWELL 8461

CHESTERFIELD 2105

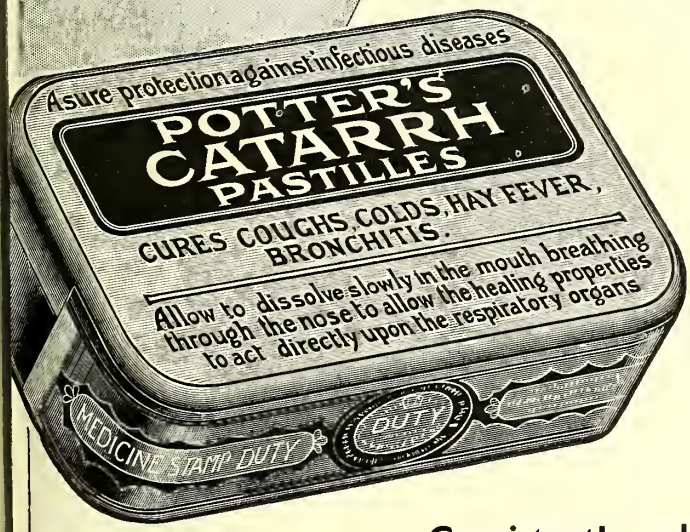
LONDON:
168 Old Street
CHESTERFIELD:
Wheat Bridge Mills

ALL 3 HELP YOU ... *to create bigger Sales!*

★ BONUS TERMS
★ NATIONAL ADVERTISING
★ 60 YEARS A HOUSEHOLD WORD



RETAIL 1/6
WHOLESALE 14/- Doz.
Packed in ½ doz.



P.A.T.A. 1/3, 11/- Doz.
Packed in ½ Doz.

POTTER'S ASTHMA & CATARRH REMEDIES

Consistently advertised in all the great national newspapers thus ensuring a big demand . . .

BONUS TERMS

POTTER'S ASTHMA REMEDIES and CATARRH PASTILLES

On orders for 6 doz. Potter's Asthma Remedies and / or Catarrh Pastilles we offer a bonus discount of 5% (Journey account, or if no journey, monthly account) in return for a window display of these goods. The prices of Potter's Advertised remedies are :

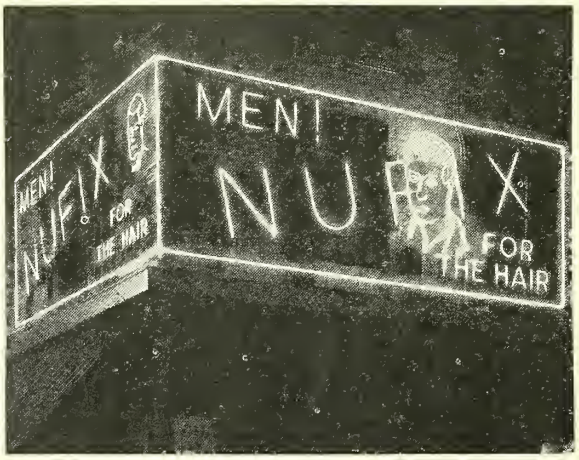
Potter's Asthma Cure 14/- doz.
Potter's Asthma Cigarettes 14/- doz.
Potter's Smoking Mixture 7/- doz.
Potter's Catarrh Pastilles 11/- doz

POTTER & CLARKE LTD.

60-64 ARTILLERY LANE, LONDON, E.1 — *Phone :* Bishopsgate 4761 (5 lines) *Grams :* Horehound, Phone, London

77 DANTZIC STREET, MANCHESTER, 4 — *Phone :* Blackfriars 8734 *Grams :* Horehound, Manchester

This flashing Neon Sign. . . .



Seen in Leicester Square—the very heart of London's busiest centre, by hundreds of thousands of men—sight seeing—business getting—amusement seeking. The crowd includes your customers. Display "NUFIX" in window and on counter, thus securing the sales this talking sign is stimulating.

Our extensive press advertising reaches every corner of the Kingdom through national dailies, weekly and monthly journals.

Using, showing and selling "NUFIX," you maintain your prestige for the best goods and give unqualified satisfaction to every customer.

NUFIX

TONIC DRESSING for MEN'S HAIR

Contains no gum—does not soil headwear or linen—fixes without hardness or deposit. Accepted as the best fixative dressing obtainable.

Try it and be Convinced

Large size	Retail 1/9	12/6 per doz.
Small "	" 1/3	9/- " "
Miniature	" 6d.	4/6 " "

(3 doz. at 4/3. 6 doz. at 4/-)

"NUFIX" shows a large margin of profit

SPECIAL BONUS OFFER

On 3 doz. lots and upwards with a minimum of 2 doz. 1/3 and 1 doz. 1/9

13 TO THE DOZEN

with Free dummy bottles for window display Through your Wholesaler or direct from Mnfrs.

Mnfrs.: **WALDEN & CO. (NUFIX) LTD.**
Nufix Works, The Hyde, Hendon, N.W.9

LACTEOL BRAND PRODUCTS

(Dr. Boucard—Paris)

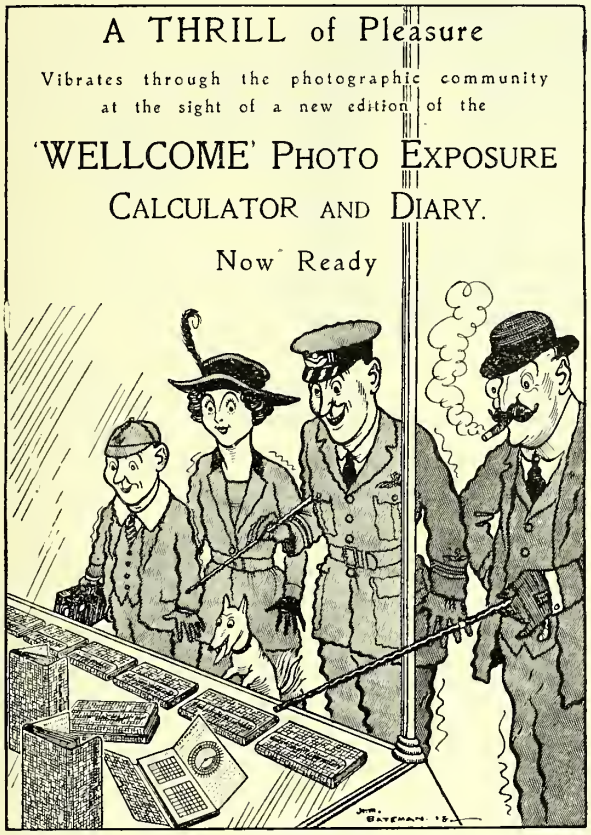
PREPARATIONS OF LACTEOL

(Lactic Ferments)

Their uses and prices

	Per box	Per doz.
TABLETS ... ... Intestinal auto-intoxication, Infantile diarrhœa, Enteritis, Cutaneous affections, Typhoid, Cholera.	3/6	30/-
LIQUID (Ampoules) Enteritis, Colitis and all troubles of Intestinal Intoxications.	4/6	40/6
RHINO-LACTEOL ... A powder for insufflation in cases of Rhinitis, Otorrhœa, Coryza, etc.	1/-	7/-
PULVI LACTEOL ... Powder for suppurating wounds, Ulcers, etc.	3/-	27/-
LACTEOL SUPPOSITORIES Constipation, Hæmorrhoids.	3/-	27/-
LACTEOL OVULES Leucorrhœa, Vulvo-vaginitis, Metritis of the cervix, Ulcerations and all inflammatory conditions of the vagina.	5/-	45/-
LACTEOL DRESSING A wet dressing for boils, carbuncles, burns and all infected wounds.	4/-	36/-
OTO-RHINO AMPOULES Muco-purulent Rhinitis, Sinusitis, Otitis, Mastoiditis.	5/-	45/-
BIOTEOL (large) ...	3/-	27/-
(small) ...	1/9	15/-
A powder without antiseptics, for use as a general dusting powder.		
VIATOL ... ... A tablet of Vitaminic content used as a tonic and easily combines with any other treatment.	4/6	40/6
CRAYON TERMOSAN BRAND SOLID EMBROCATION (large)	3/6	30/-
(small)	1/-	7/-
Chills, Rheumatism, Sciatica, Muscular fatigue, etc. A solid and safe embrocation easily rubbed in—useful in all cases of pain where analgesia is requested.		

FROM ALL WHOLESALERS



REPRODUCTION of a full-page BURROUGHS WELLCOME & CO. advertisement drawn by H. M. Bateman and issued in NOVEMBER, 1918.

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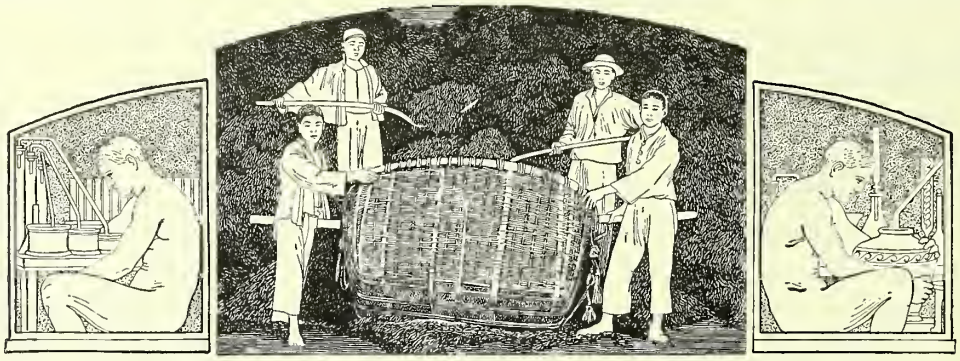

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A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

The official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in Overseas Dominions

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News of the Week

Import Duties Advisory Committee Notices

The Import Duties Advisory Committee give notice of applications for drawback under Section 9 of the Finance Act, 1932, in respect of the following commodities:—

Soya beans used in the manufacture of soya bean flour by a process in which the beans are decorticated, but the oil is not expressed or extracted.

Soya beans used in the manufacture of soya bean oil, but not including hydrogenated soya bean oil and mixtures of soya bean oil with other oils.

Any representations which interested parties may desire to make in regard to these applications should be addressed in writing to the Secretary, Import Duties Advisory Committee, Caxton House (West Block), Tothill Street, Westminster, London, S.W.1, not later than October 31, 1935.

The Committee announce that they have decided not to make any recommendation in connection with the application previously advertised for an increase in the import duty on opal glass bottles and jars.

Key Industry Duty Exemption Application

Application has been made to the Board of Trade, under Section 10 (5) of the Finance Act, 1926, for an Order exempting X-ray apparatus comprising a swinging carrier for tube and film adapted for their movement in synchronism throughout an exposure from liability to key industry duty. Communications should be addressed to the Principal Assistant Secretary, Industries and Manufactures Department, Board of Trade, Great George Street, S.W.1, on or before November 3, 1935.

Dangerous Drugs Acts, 1920-32

Suspension of Withdrawal of Authorisation

The Home Secretary gives notice that he has suspended until further Order the operation of the Notice, dated February 8, 1933, withdrawing from Frank Arthur Evison, M.R.C.S., L.R.C.P., the authority granted by the Regulations made under the Dangerous Drugs Act, 1920, to duly qualified medical practitioners to be in possession of and to supply raw opium, coca leaves and Indian hemp, and the drugs and preparations to which Part III of the Act applies; and has also suspended the direction given at the same time, that it should not be lawful for Dr. Evison to give prescriptions for the purposes of the aforesaid Regulations.

International Parliamentary Commercial Conference

The International Parliamentary Commercial Conference, which met at the House of Commons last week, Lord Eltisely presiding, discussed several matters of general interest from the point of view of export trade. In the Commercial Committee, over which Sir Philip Dawson, M.P., presided, Mr. L. S. Amery, M.P., submitted a report in which he condemned the most-favoured-nation clause as an anachronism in the modern world. He moved the following resolution, which was carried unanimously:—

This conference considers that the unconditional most-favoured-nation clause has, under modern conditions, become an obstacle to the development of mutual trade between nations and to the economic recovery of the world, and should be modified; in particular that it should not, in future, apply as against States which are prepared to establish a system of mutual economic co-operation on a regional or historical and political basis.

The Conference decided to establish a research committee of six members. The committee will meet periodically in London, and will study conditions for the return of the gold standard. The resolution to form the committee declared that the ultimate objective of the monetary policy of governments must be the return to the international gold standard, and that this was not capable of attainment for the time being. South African

delegates voted against the resolution. M. Georges Leredu, a member of the French Senate, was elected president of the General Council for the next two years.

On the evening of October 5 the Lord Mayor and Corporation of London gave a reception at Guildhall in honour of the delegates. The reception committee, under the chairmanship of Mr. Frederick Youldon, had made the arrangements with the perfection usual in City functions, and the stateliness of the setting must have duly impressed those of the guests who were seeing it for the first time. After the distinguished visitors had been presented the company dispersed for admiration of the treasures on view. These included the pearl sword, the jewelled sceptre, the City purse, a wonderful array of plate from the Mansion House, and the sword of honour presented by the Corporation to Nelson. Among the manuscripts and books shown in the Library were one of the very few genuine signatures of Shakespeare, the Charter of William I (written in Anglo-Saxon), the Liber Albus, the Great Chronicle of London, and many other documents of historic interest. Music and the pictures in the Art Gallery enhanced the charm of a delightful evening. Among those present were the ambassadors or high commissioners of several countries, Lord Eltisley, Mr. J. Ramsay MacDonald, Mr. Justice Porter, Sir Josiah Stamp, the chairman of the London County Council, the Mayor of Westminster, and the president of the London Chamber of Commerce.

Presentation to Mr. James Grier, M.Sc., Ph.C.

A reception and dinner-dance, organised by the Manchester, Salford and District Branch of the Pharmaceutical Society, was held at the Manchester Limited Restaurant on October 2. This year the function had an added interest in that a presentation was to be made to Mr. James Grier, M.Sc., Ph.C., on his retirement from Manchester University. After a reception by the chairman and Mrs. J. H. Franklin, dancing continued till the interval for dinner, and after dinner Mr. Franklin called upon Mr. E. H. Simmons to make a presentation to Mr. Grier. A letter had been received from Mr. W. Kirkby regretting his inability to attend the function and testifying to the excellence of Mr. Grier's work at the University. Mr. Simmons said that since 1896 Mr. Grier had filled the position of Lecturer in Pharmacy at Manchester University with marked success. Mr. Grier's life had been devoted to this work, and it had had a marked effect upon raising the ethical and educational standard of their students. The tact and diplomacy displayed by Mr. Grier in consolidating the Department of Pharmacy within the University was beyond all praise. In those early days the view that pharmacy was a technical subject, and as such should be dealt with at the College of Technology, was very generally held. This view did not prevail in the end, for in 1904 pharmacy was accepted as a subject of a degree in science. Mr. Grier has served on the council of the Association for many years and also on the executive of the Branch. He had been secretary, and afterwards president, of the Association, and he had been largely responsible for the work of the old Chemists' Assistants' Association. Mr. Simmons expressed the hope that Mr. and Mrs. Grier would for many years to come be blessed with health and strength and take pleasure in the remembrance of this memorable evening. Mr. Simmons then presented a silver tray, Chippendale in design, and a cheque to Mr. Grier. The inscription on the silver tray was as follows:—

Presented to Mr. James Grier, M.Sc., Ph.C., by the Manchester Pharmaceutical Association and the Manchester, Salford and District Branch of the Pharmaceutical Society on his retirement from Manchester University in recognition of his distinguished services to pharmacy, and to commemorate Mr. and Mrs. Grier's Silver Wedding, August 30, 1934. October 2, 1935.

Mr. Grier, who was received with prolonged applause, said he was overwhelmed by their kindness and was deeply sensible of all they had done. If "kind hearts are more than coronets," then the kind thoughts that had made this gift possible, and what they signified, would be even more appreciated than the gifts themselves. The loyalty of his colleagues on the council of the Association had always been outstanding. They were inspired by one object only—the betterment of the craft. To him this would always be a cherished memory. He had lived for forty years in Manchester, and he looked upon himself as a Manchester man. The County of Gracie Fields had her own warm and generous and loyal heart, and their presentation that night indicated appreciation of his work in the city of his adoption. Years ago, as a boy in Scotland, his imagination had been fired by the story of the men who had built up the vast cotton industry. He was certain that Lancashire would arise again Phœnix-like from its present depression. He pointed out that the Fairchild, Leverhulme and Manchester Scholarships had this year been won by Lancashire lads.

London

At Old Street Police Court, on October 7, Henry J. Smith (24), motor driver, was discharged with a caution under the Probation of Offenders Act on a charge of being concerned in stealing California syrup of figs value £3 12s., the property of May, Roberts & Co., Ltd., Clerkenwell Road, E.C.1, his employers.

A visit to the Biological Laboratories of Evans Sons Lescher & Webb, Ltd., Liverpool, has been arranged by the South-Eastern Association for October 23 and 24. The party will leave Euston at 6.5 p.m. on the Wednesday and Liverpool at 5.25 p.m. on the following day. Applications for tickets (28s. 9d. inclusive) should reach the Secretary, 233 Woolwich Road, Abbey Wood, S.E.2, by October 15.

At Thames Police Court, recently, Norman Davis (28), insurance agent, was charged with offering to supply cocaine and with unlawfully possessing opium and Indian hemp. He pleaded "Guilty." Evidence was given to the effect that Davis told a police officer he could supply 2 lb. of cocaine, and a price of £75 was agreed upon for the parcel. The parcel was found to contain sodium bicarbonate. The accused (who, it was stated, had an excellent character) was remanded for three months.

At Tower Bridge Police Court, on October 8, Coleman Romain, salesman, Jack Stevens, tobacconist, Israel David Lubranietzky, perfumer, and Benjamin Meadows, tobacconist, were charged on remand with conspiring together and with others not in custody to cheat and defraud such persons as might be induced to part with goods, on credit, to D. Lewis, trading as wholesale grocers and chemists' sundriesmen at 175 Borough High Street, S.E.1, between October 1934 and April 1935. Mr. McClure, barrister, prosecuted, and Mr. Bernard Simmonds, solicitor defended Romain, Stevens and Lubranietzky. Mr. McClure said that from 1932 Lewis was trading as Dave Lewis's Cut Price Stores. This business was that of a chemists' sundriesman, tobacconist, etc. At first this business was run in quite a regular way, and Lewis got good accounts with well-known firms. The evidence would show that until 1934 the business was retail, but in 1934 they began to trade in a wholesale way. Although the business had stopped there had been no bankruptcy proceedings, so the prosecution were not in a position to state the whole amount owed to creditors, but there was no doubt it was a very large sum. Evidence for the prosecution was given, and a further remand on bail was ordered.

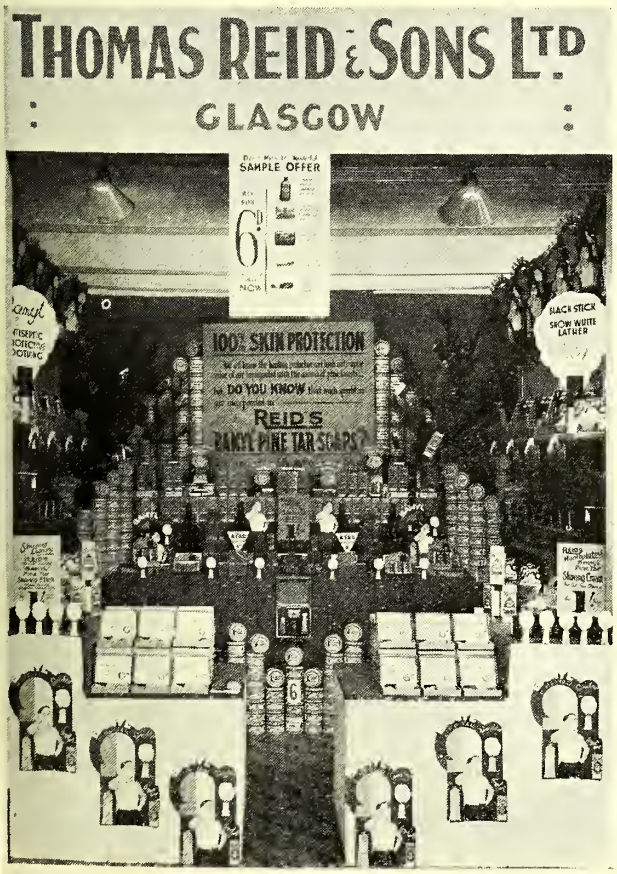
Group at the Wedding of Mr. R. Ralph and Miss Scott (Prichard & Constance (Mfg.), Ltd.), at Holy Trinity Church, Stroud Green, N.4

Scottish Notes

Glasgow Housing and Health Exhibit

The thirteenth Housing and Health Exhibition promoted by Glasgow Corporation was opened in Kelvin Hall, Glasgow, on

October 2, continuing until October 26. Exhibitors of interest to readers of THE CHEMIST AND DRUGGIST include THOS. REID & SONS, LTD., Glasgow ("Bamyl" pine tar soap products);



ORZONE (SCOTLAND), LTD., Glasgow (orzone emulsion and Asma-Bron); SPONCEL, LTD. (Spontex "Viscose" sponges, bakelite mouldings, and viscose bottle closures); PALINYRA LABORATORIES (LIVERPOOL), LTD., Liverpool, (floral perfumes); HUNTER BEATTIE, of Glasgow (H.B.T. products, each claimed to incorporate the expressed juices of living plants and flowers); CROMERSOL, CO., LTD., Glasgow; KOLYNOS (SALES), LTD., London; HOBOS, LTD., Glasgow (laxative pills); EX-LAX, LTD., Slough (chocolate laxative).

Brevities

Persons interested in the formation of a Wednesday afternoon pharmacy football team in Edinburgh, either as playing or non-playing members, should communicate with Mr. William Bocker, 40 Queensferry Street (Telephone No. 22422).

Matters for submission to the Pharmaceutical Standing Committee (Scotland) and to the General Council of Panel Chemists (Scotland) in connection with the arrangements for pharmaceutical service during 1936 should be sent either through the local Pharmaceutical Committees or direct to 36 York Place, Edinburgh.

That "ordinary traders" should be permitted to sell lysol, "with, of course, necessary safeguards," in those areas where there is no chemist's shop within a radius of three miles, is the substance of the recommendations of the Parliamentary Committee of the Scottish Grocers' Federation, reported in a recent issue of "The Grocer."

Under the title "Link with Lister" a recent issue of the "Glasgow Evening Times" publishes an interview with an eighty-five-year-old craftsman, Mr. Andrew Brown, who formerly made antiseptic appliances for Lord Lister. "When the Lister Centenary was celebrated in 1927 Mr. Brown supplied a carbolic spray, used by Lister to keep his hands germ-free during operations, to the Wellcome Historical Medical Museum in London, and made a replica of a donkey pump from nothing more than a wood block illustration."

At the annual conference of the National Association of Insurance Committees, held at Perth on October 4, two motions were approved. The first was "that the Executive Committee be instructed to report as to the provision of hospital treatment to insured persons and their dependants." The need for a closer relationship between local authorities and the family doctor was stressed by ex-Provost Dyer, and Mr. Neunson (Edinburgh) suggested that hospital treatment should become a benefit under the National Health Insurance scheme. A second resolution was to the effect that "this conference is of opinion that under the National Insurance Acts dental and optical benefit should be included as statutory benefits."

At Hamilton Sheriff Court, recently, a complaint was brought under the Food and Drugs (Adulteration) Act, 1928, against David Cassels & Co., wholesale grocers, Quarry Street. The charge was that olive oil was sold by them to a Wishaw grocer under a false warranty in writing, whereas, on analysis, it was found to contain about 30 per cent. of arachis oil. A partner of a Glasgow firm of importers stated, in reply to Mr. J. C. Allan, agent for the defence, that they received with the olive oil a warranty as to its purity and that they distributed the oil as they received it. Mr. Cassels said that he had dealt with the importers for fifty years. They were a firm of the highest commercial reputation, and he had never had any reason to doubt their probity. The sheriff dismissed the complaint.

Irish Notes

Pharmaceutical Society of Northern Ireland

The result of the election to the Council of the Pharmaceutical Society of Northern Ireland was declared on October 7 at the annual meeting of that body, held at 73 University Street, Belfast, under the presidency of Mr. Fred Storey. This year there were four vacancies for pharmacists (*C. & D.*, September 28, p. 382). The result was as follows:—Moore, 248; Glendinning, 248; Connor, 243; McDowell, 190; Richey, 132.

Mr. Glendinning, who will represent the North-West in place of Mr. Maxwell, has been for many years a prominent member of the trade in Londonderry City. Mr. McDowell, who was defeated on a previous occasion, has now been successful. He is one of the younger members of the trade in Belfast and has always taken a prominent part in the affairs of the Ulster Retail Drug Trade Association.

Ulster Retail Drug Trade Association

The monthly meeting of the Executive Committee was held in the Grand Central Hotel, Belfast, on October 1. The president (Mr. James Dundee) occupied the chair, and there were also present Messrs. W. C. Tate, J. McGregor, J. Taggart, W. Martin, J. Adams, E. A. Richey, R. A. McEwan, T. A. Gibson, C. Abernethy, T. Mitchell, John McDowell, James McDowell, A. E. A. Davis and A. Steede. Mr. Richey reported that he had with the secretary investigated the several instances of alleged price cutting brought to the notice of the last meeting; it was found that only in one instance had a reduced price been charged, and this was due to a genuine mistake, which has now been corrected. The secretary reported that he had personally investigated a case of reported price cutting in a provincial town some considerable distance from Belfast; a test purchase was made for which the correct price was charged. He had communicated the facts to the complainant, but had received no acknowledgment. The secretary read a communication from the Ministry of Home Affairs relative to the Shop Hours Amendment Bill. After discussion it was agreed to refer the matter to the subcommittee for consideration and report. The secretary of a provincial society wrote regarding the practice of some doctors writing prescriptions on plain paper and marking them "Panel." Mr. Dundee reported that with the secretary he had had an unofficial interview with the Ministry of Labour with very satisfactory results, and this matter would be adjusted in the near future. It was arranged to defer any suggestions regarding the utilisation of the registered design until after the annual general meeting in November. It was agreed that a letter of sympathy be sent to Mr. McKay, who had been bereaved of his wife. Price alterations were considered and adopted.

Kerry Chemists Organise

The chemists of County Kerry have now organised themselves as a local association of the Irish Drug Association. The new association, which was launched on the initiative of Mr. Brendan Smith, organiser of the I.D.A., was formally established at a meeting of Kerry chemists held on October 2 at Killarney. In view of the scattered nature of the county it was decided to subdivide the county association into two subdivisions, one for North and one for South Kerry, both divisions to meet as one when necessary. The Northern division will embrace such centres as Tralee, Listowel, Dingle, Castleisland, etc., and will be styled the Tralee and District Unit. The second area, to be known as the Killarney and District Unit, will embrace such centres as Killarney, Caherciveen, Killorglin, Rathmore, Kenmare, etc. The general view of the meeting was that one large county association would entail the hardship of travelling long distances upon many members, whereas they can be kept in touch with their fellow chemists through the smaller units. Mr. Cronin (Rathmore) said they should try to cater for chemists in towns long distances apart. It would be an undue hardship to ask members to travel long distances to a meeting. Mr. Sewell (Killarney) also expressed the opinion that it would be better to divide Kerry into two areas rather than have one big unwieldy area with a small membership. Several other speakers having expressed similar views, it was unanimously agreed to subdivide the county.

The formation of the first unit was proceeded with, and Mr. E. Harnett was elected *President* of the Killarney and District Association, with Mr. J. Cronin as *Vice-President*. Mr. Sewell was elected *Secretary* and Mr. P. O'Donoghue *Treasurer*. The question of fixing working hours was next discussed, and it was agreed that it would not be possible to fix a schedule for the whole year, in view of the heavy seasonal tourist business. From November 1 to April 30 it was decided that the following business hours be observed: Weekdays, 9 a.m. to 9 p.m.; Saturdays, 9 a.m. to 10 p.m.; Sundays, 11 a.m. to 1.30 p.m. and 7.30 p.m. to 8.30 p.m. The question of business hours during the tourist season was left open.

Considerable dissatisfaction was expressed at the number of L.A.H. medical halls being opened, and several chemists present urged that pressure should be brought to bear on the Pharmaceutical Society to take action in the matter. It was also suggested that the Pharmaceutical Society should be asked to take action with regard to the question of appointing qualified compounders for dispensaries and public institutions. The problem of the penny sales came up, and it was decided to have the matter brought forward for local adjustment at the next meeting of the Killarney Association.

Brevities

Sir Thomas Robinson has been elected a member of the Town Planning Committee of the Dublin Corporation.

Miss S. J. Kyle, Ph.C., and T. W. Reynolds, Ltd., were awarded damages of £14 and £16 respectively at Dungannon Quarter Sessions on October 3 in respect of recent window-slashing.

Mr. James J. Kerr, P.C., M.P.S.I., registrar of the Pharmaceutical Society of Ireland, was recently bereaved by the death of his father, Mr. John Kerr, which occurred in Dublin. The late Mr. Kerr, who was well known in the public life of the North, was principal of St. Mathews National School, Seaford Street, Belfast, and had been chairman of the Kilkeel Board of Guardians and vice-chairman of the Kilkeel Rural District Council. At the interment, which took place at Newcastle, co. Down, Mr. D. Warwick, P.C., president of the Pharmaceutical Society, represented the Society.

Topical Reflections

By Xrayser

The Renewal

of N.H.I. contracts for a period of three years has to be considered this month; you have helped chemists by devoting some space to the consideration of this matter (p. 416). It is one of the most important subjects the N.P.U. is called upon to discuss. It should assume greater prominence than ever this year, because of the growth of societies in different parts of the country which have for their aim the supply of medicines, to persons of limited incomes, upon similar lines to that carried on under the N.H.I. scheme. I am convinced that in the future more and more of such societies will be started, and that as a result dispensing by the chemists, which is generally an integral part of the scheme, will grow, with results which will involve much labour and trouble with extremely poor results in profit margins. All the more reason, therefore, that the Tariff, the bedrock of N.H.I. dispensing, should be improved and strengthened in every possible way. Certainly the chemists' bills should be paid in full, and there should be no discounting; this is justice of a most elementary type.

A Fascinating Hobby

is the collecting of pharmacy jars. I have read your article on pp. 419-22 with the greatest interest. It is refreshing to turn from these days of stainless steel windows and factory moulded glass containers for drugs to the spacious days when the apothecary's shop must have been a sheer delight to visit, with its work of the craftsman and the artist combined to be seen in all parts of the pharmacy. How does one pick up pharmacy jars? I never see specimens in the antique and curiosity shops, although I often look for them. I have friends, however, who seem to acquire valuable specimens with the greatest ease and at reasonable prices. Not only pharmacy jars are to be found, but also pomade pots and jars with pictured lids; these are becoming valuable. Truly the discarded articles of one generation are the treasures of the next; I often wonder where a collection of pomade pots went to that once graced the pharmacy of a venerable chemist whom I knew in my apprentice days. He wore a frock coat of ancient cut with silk lapels stained with the grease of many dinners; his face was adorned with a pair of whiskers known as "Dundrearies."

Legal Reports

Pharmacy Act (Ireland), 1875, Amendment Act, 1890.—At Limerick District Court, recently, Mrs. McNulty, William Street, was summoned for having kept open shop without having a qualified person in charge. The defendant, who pleaded "Guilty" to a technical offence, admitted in reply to Mr. J. J. Gaynor, solicitor for the Pharmaceutical Society of Ireland, that she had been warned twice in connection with this matter. The district justice said he could not regard the offence merely as a technical one to be dealt with under the Probation of Offenders Act. If any accident occurred involving loss of life, he could not see how the proprietor of the medical hall could escape a serious charge. Replying to Mr. Gaynor, the defendant said she had a Miss Clery, a qualified chemist, in the shop, but admitted that Miss Clery was only on the premises for a few hours in the day. The registrar of the Society (Mr. J. J. Kerr) explained that the Society had received a number of complaints about conditions in Limerick. The defendant was fined £1, with £2 2s. costs and £5 17s. witnesses' expenses.

Breach of Contract.—At Belfast Recorder's Court, recently, an action was brought by Charles Page & Co., Ltd., Grosvenor Gardens, London, S.W.1, who claimed £50 damages for breach of contract from Arthur S. Ritchie & Co., Victoria Street, Belfast. Mr. Fox, for the plaintiffs, said the claim was for breach of a contract in writing whereby the defendants agreed to purchase from the plaintiffs, a London firm of fertiliser merchants, 200 tons of neutral sulphate of ammonia. The defendants said they believed that the term as to delivery was to be immediate, whereas the plaintiffs said the whole negotiations were in connection with the May-June shipment. The only date mentioned in the whole correspondence, Mr. Fox held, was the May-June shipment. The 200 tons were sold at a loss of £60. Mr. Curran, for the defence, said their contention was that there was no contract. May-June delivery was no use whatever in the Northern Ireland market. A decree for £50 was given.

Claim for Injunction.—In the High Court, London, on October 8, Eugene Rimmel, Ltd., were sued by Parfumerie Violet, who claimed an injunction to restrain the defendants from passing off their own goods as the goods of plaintiffs, and also asked for damages for alleged breach of agreement. The plaintiffs stated that they entered into two agreements with defendants in November 1931. Under one the defendants agreed to act as agents for the sale in the British Isles of the plaintiffs' goods, and under the other they agreed to manufacture certain of plaintiffs' goods for five years for a commission on the wholesale price. The plaintiffs alleged that both these agreements had been infringed, but the defendants denied the allegations. The case was heard by Mr. S. R. C. Bosanquet, K.C., Official Referee. Serjeant Sullivan, K.C., for the plaintiffs, said they were a very old firm engaged in the manufacture of perfumes and toilet requisites. For some years they had been winning their way into the English market. In this way they were competing with the defendants, and accordingly the two firms entered into an agreement under which the defendants were appointed selling agents of plaintiffs' goods, taking 20 per cent. of the cash receipts. They also took over the plaintiffs' selling organisation, including the chief organiser, Mr. R. M. Calvert. It was agreed that the defendants should not sell any goods which would compete with the plaintiffs' goods, but the whole story, said counsel, from the commencement of the agency until its termination, was one of wilful and deliberate violation of that agreement. Serjeant Sullivan went on to explain that in the second agreement the defendants undertook to manufacture some of the plaintiffs' products in order to get over difficulties of exchange between the two countries. The plaintiffs supplied the raw materials and the defendants made up the goods, but did it so badly as to injure the plaintiffs' trade. Replying to the Official Referee as to why rouge puffs had been called rouge pads, counsel said "If they had been described as rouge puffs they would have had to pay duty." Mr. Charles Codd, London manager for the plaintiffs, said that after the business was taken over by the defendants they supplied to Carreras, Ltd., one of the plaintiffs' customers, a number of their own goods in imitation of the plaintiffs' goods. A large proportion of the goods supplied by the defendants to Gallaher, Ltd., another of the plaintiffs' customers, were returned as unsatisfactory and business soon stopped. The hearing was adjourned.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

Bonsor (Chemist), Ltd. (P.C.).—Capital £500. Objects: To carry on the business of chemists, etc. R.O.: 1 St. Stephen's Road, Leicester.

Berkeley Court Pharmacy, Ltd. (P.C.).—Capital £500. Objects: To carry on the business of chemists, druggists, etc. R.O.: 7 Melcombe Street, Baker Street, N.W.1.

Mouldcraft, Ltd. (P.C.).—Capital £5,000. Objects: To manufacture and deal in organic and inorganic chemical products, plastics, etc. R.O.: 55 Spital Street, Dartford, Kent.

Blackburn Chemists, Ltd. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists, druggists, etc. Walter H. Marsden, "Dunscar," Woodgates Road, Blackburn, director.

S. Liston & Co., Ltd. (P.C.)—Capital £2,600. Objects: To acquire the business of a pharmaceutical and general chemist formerly carried on by the late S. Liston at 280 Fulham Road, S.W.10.

Cosmetique et Pharmacie, Ltd. (P.C.).—Registered in Dublin. Capital £250. Objects: To carry on the business of chemists, druggists, etc. Michael McMahon, 67 Terenure Road, East Dublin, director.

W. H. Kemp, Ltd. (P.C.).—Capital £1,000. Objects: To acquire the business of a chemist, druggist and optician carried on by Wm. H. Kemp at 42 High Street, Fenton, and at 22 Stefford Street, Longton, Stoke-on-Trent.

Golden Health Stores, Ltd. (P.C.).—Capital £500. Objects: To carry on the business of manufacturers and dealers in health and dietetic foodstuffs, herbal preparations and medicines, etc. Arthur Noble, "The Heartsease," Plumstead Road, Norwich, director.

Universal Emulsifiers, Ltd. (P.C.)—Capital £25,000. Objects: To acquire from Thurston W. Dickeson, of Auckland, New Zealand, the benefit of certain existing inventions relating to improvements in processes for producing emulsifying, dispensing, wetting, suspending and protecting agents and the like; and to adopt an agreement with Wm. T. A. Proctor, and to carry on the business of chemists, druggists, etc. R.O.: 20 Cockspur Street, S.W.1.

Phosferine (Ashton & Parsons), Ltd. (P.C.).—Capital £500,000. Objects: To acquire the business carried on by Phosferine (Ashton & Parsons), Ltd., at La Belle Sauvage, Ludgate Hill, E.C., and elsewhere, and to carry on the business of manufacturers and wholesale and retail vendors of homœopathic, allopathic, patent and proprietary preparations, infants' and invalids' foods, medicines, druggists' sundries, toilet requisites, etc. Specific powers are taken for advertising in the Press, by purchase and exhibition of works of art, by competitions and otherwise. The first directors (to number not less than three nor more than ten) are to be appointed. A director need not be a shareholder. Solicitors: Simmons & Simmons, 1 Threadneedle Street, E.C.2.

Companies dissolved.—Notice has been given in "The London Gazette" that the names of the under-mentioned companies have been struck off the register and the companies dissolved:—Chemical & Detergent Co., Ltd.; Clarkes Chemists (South Wales), Ltd.; Granthams (Chemists), Ltd.; Medical Aid Society; Olivers Chemists, Ltd.; Rubber Brushes, Ltd.

Genatosan, Ltd.—Report for the year ended June 30, 1935, shows a trading profit for the year of £80,924, compared with £63,206 for the previous twelve months. After provision for income tax, fees, and depreciation, there is a net balance of £64,776, against £50,142, and the ordinary shares receive a final dividend of 20 per cent., making 35 per cent. for the year, the same as for 1933-34, while the allocation to reserve is doubled at £10,000, and £5,000 also is written off expenditure on dental and other preparations, leaving the amount to be carried forward higher at £13,441.

"Chemists' Friends" Scheme

A CIRCULAR LETTER, the text of which is reprinted below, with slight compression, is being sent out during the present week by the secretary of the National Pharmaceutical Union:—

You are asked to give your hearty support to this scheme which has for its object the reservation to the chemist of his legitimate business. The N.P.U. Executive feels that the time has arrived when it is necessary for retail chemists to take action jointly to conserve their interests, and with the hearty co-operation of every member of the N.P.U., it feels sure the "Chemists' Friends" scheme will be an assured success. Members will realise that when asking manufacturers to put their articles on the "Chemists' Friends" list and sign a binding agreement, the N.P.U. Executive must be in a position to offer a "quid pro quo" in the shape of the united support of retail chemists. Hence success or failure of this effort to conserve our business will depend upon the initiative and energy displayed by chemists in supporting the firms who are prepared to restrict their business to those carrying on business in accordance with the Pharmacy Acts. The details of the "Chemists' Friends" agreement between the manufacturer and N.P.U., Ltd., "the Company" acting on behalf of the National Pharmaceutical Union, are as follows:—

1. THE Goods set out in the Schedule hereto (herein called "the said goods") shall be sold as Chemists Lines by Chemists only and may be marked with a distinctive mark approved by the Company indicating that such goods are Chemists Lines sold only by Chemists.

2. THE Schedule hereto may by written agreement between the parties hereto be extended from time to time to include other goods and the provisions of this agreement shall extend and apply to all such goods.

3. THE Company will notify all members of the National Pharmaceutical Union of the goods included herein and of any further goods added to the Schedule.

4. THE Manufacturer may sell the said goods to the following persons (which expression shall in this Agreement be deemed to include firms, companies and other bodies) and no others namely:—

(*a*) Wholesale druggists approved in writing by the Company who agree with the Manufacturer to withhold supplies from all persons not included in this clause.

(*b*) Persons not being wholesale druggists who carry on the business of a Chemist and Druggist in accordance with the Pharmacy and Poisons Act 1852 to 1933 or any Act amending the same or substituted therefor.

(*c*) Such other professional persons or classes of professional persons as the Company shall in writing approve.

(*d*) Hospitals and approved Nursing Institutions.

5. ALL sales made by the Manufacturer to a wholesale druggist shall be made subject to a condition binding such wholesale druggist not to resell the said goods to any retailer or person not being one of the persons defined in the last preceding clause hereof or to any person whose supplies have been discontinued under the provisions hereinafter contained.

6. THE Company hereby agrees with the Manufacturer if and whilst during the said period the Manufacturer duly performs Clause 4 hereof:—

(i) To publish and circulate to all members of the National Pharmaceutical Union a monthly list of Manufacturers to be called The Chemists Friends List in which shall be included the names of the Manufacturer and of all other Manufacturers who enter into similar agreements with the Company to this Agreement whilst he and they respectively perform on his and their respective parts this and the said similar agreements respectively and of the said goods to which this and the said similar agreements respectively relate.

(ii) To recommend to members of the National Pharmaceutical Union that they shall:—

(*a*) Recommend and push the sale of the said goods in preference to similar goods of Manufacturers not included in the said list.

(*b*) Support the Manufacturer and such other Manufacturers as aforesaid by periodical window and counter displays of their respective goods.

(*c*) Sell the said goods only to members of the general public [or other their customers].

(*d*) Not to sell or offer for sale any of the said goods at a price less than the minimum retail price fixed by the Manufacturer's current list of prices.

(*e*) Not give promise or offer any gift or bonus whether by way of a dividend discount rebate or share of the profits except in the case of doctors dentists nurses veterinary surgeons and nursing institutions when a discount of 10 per cent. may be allowed on goods for professional use.

(*f*) Not alter the marks or labels identifying the said goods.

7. THE Manufacturer may cease to supply any person who declines or neglects to carry out the recommendations referred to in the last preceding clause hereof and shall cease to supply any person whom the Company for good cause requests the Manufacturer to cease supplying and such withholding of supplies shall continue until the Company shall notify the Manufacturer that such person may again be supplied.

8. ON proof to the satisfaction of the Board of Directors for the time being of the Company of a breach of this Agreement by the Manufacturer the sum of £50 deposited by the Manufacturer with the Company on the execution thereof shall be forfeited to the Company and the Company shall be at liberty to delete the Manufacturer's name from Chemists Friends List and to give notice thereof to all members of the National Pharmaceutical Union but the Manufacturer shall be afforded an opportunity to explain the said breach and of having his explanation (if any) duly considered by the said Board of Directors.

9. IF the Manufacturer shall duly perform this Agreement then on the expiration of the period mentioned in Clause 11 hereof the said sum of £50 shall be repaid to him by the Company but without any interest.

10. THE Manufacturer enters into this Agreement with the intention of binding himself his executors administrators and assigns or other his successors in title to the business and if he shall dispose of his business he shall procure that the purchaser or other successor in title thereto shall enter into a similar Agreement with the Company for a period not less than the unexpired term of this Agreement.

11. THIS Agreement shall remain in force for seven years from the date hereof and thereafter shall continue in force until the expiry of six months' notice in writing given by either party hereto to the other.

The essence of the scheme is that so long as the manufacturer is prepared to sell his products through retail chemists only, he shall receive loyal support and every encouragement from chemists. Conversely, chemists are to make their influence felt upon those manufacturers who wish to be free to tempt outsiders to sell chemists' goods. In other words, chemists should give priority on all occasions and in every way to the goods of the manufacturer who is willing, under the "Chemists' Friends" scheme, to reserve them to chemists and should withhold that support from those who do not reserve their lines to chemists.

In no circumstances should chemists in future accept a manufacturer's statement "we only supply chemists," or "we only deal with the drug trade," unless the article is on the "Chemists' Friends" list. No firm can be a real friend to chemists as a body if it desires liberty to deal with drug stores and unqualified dealers generally, or if it refuses to support this movement. Chemists can secure and protect their trade for themselves, and it never was more necessary than it is to-day. The "Chemists' Friends" scheme will be the medium for conserving the drug trade. The scheme does not involve a chemist in refusing to sell any article, but it does mean that he must not in future make sales for any article the manufacturer of which is unwilling to declare himself a chemists' friend. . . . The "Chemists' Friends" list will be successful if limited to chemists' goods, because the chemists' influence is necessary to maintain the sales of such articles. If not so limited it would inevitably fail, since the chemist is not essential in connection with the sale of other goods.

We must help ourselves if we are to re-establish control of our own trade, it is no use waiting for Parliament to do anything in the way of restricting sales of medicinal articles to chemists. It will pay retail chemists handsomely to ensure success for the "Chemists' Friends" scheme, and if the N.P.U. Executive receives the assurances of support it expects, success is assured at the outset.

Please give the Executive real evidence of the feeling of chemists on this matter by sending your card immediately.

Pharmaceutical Society of Ireland

Annual Meeting

THE sixtieth annual meeting of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on October 7, Mr. D. Warwick (president) in the chair. The attendance included Mr. F. J. Fitzpatrick, Dr. J. A. Mitchell, Sir Thomas Robinson, Messrs. J. Duggan, J. T. Dwyer, B. P. Hickey, J. Gleeson, J. A. O'Rourke, J. K. Whelehan, P. C. Cahill, G. O'Neill, B. Smith, M. O'Callaghan, J. J. Howard, P. J. Killacky, W. V. Bowie, T. Larkin, R. Bates, Miss M. C. Fox and Miss M. Morris.

At the outset of the proceedings THE PRESIDENT said: Ladies and Gentlemen, before we start the business of this meeting I would like to refer to the sad bereavement our registrar, Mr. Kerr, has suffered in the death of his father, which has occurred since our last meeting. The late Mr. Kerr was a fine old gentleman, who was spared to his family for over four score years. I would ask you to support me in a vote of sympathy to our registrar and his family. The vote was passed in silence, all members standing.

THE REGISTRAR expressed his thanks to the meeting for their expression of sympathy.

PRESIDENT'S ADDRESS

THE PRESIDENT said: Ladies and Gentlemen, the time has come for me to render an account of my year's stewardship. In the first place I may be pardoned if I strike a personal note in order to pay a tribute to my colleagues on the Council for the unfailing courtesy and kindness they showed me during my year in the presidential chair. During the last year we have not only had not an unpleasant word, but also there has been the greatest possible co-operation and enthusiasm to do the best that lay in their power for pharmacy. This is as it should be, and the members throughout the country apparently recognise they have got a good Council, as is shown by the fact that the outgoing members have been returned unopposed. We are in the middle of extensive alterations and improvements to the premises. When they are completed we will have two new class rooms for botany and theoretical chemistry, the same size as this Council chamber. Improvements have been made in the Pharmacy School, modern cloakroom arrangements have been provided for the students, and central heating will be installed throughout the building, as well as a comfortable porter's lodge. When the alterations are completed we will have premises of which pharmacists may reasonably be proud.

I will leave the financial side to the honorary treasurer, and I think you will find that he has an equally pleasing tale to tell. During the year we have been honoured by a visit from the president of the Pharmaceutical Society of Northern Ireland, and I had the pleasure of returning the visit a couple of weeks ago. I might add that during the visit of the British Pharmaceutical Conference the vice-president and a number of the members of the Council, with myself, visited Belfast, and were received with the greatest hospitality. I would like to say a few words about our treasurer, and to draw attention to the work he has done during the past and previous years for the Society. Few things, I imagine, could give him less pleasure than publicity, but he is worthy of it, since he has many qualities that ought to be known. He has done, and is doing work that deserves attention, but his modesty is so great that a public appreciation of his worth, and work, would give him more pain than pleasure. Our registrar, for his kind thought and consideration during my year of office, I wish to assure of my sincere appreciation. At all times when his help and advice was sought, it was generously given. It has personally been a source of great pride to me to hold the very honourable office of president of your Society, and I trust I have upheld your traditions, and handed on the flag of pharmacy unsullied. (Applause.)

RE-ELECTION OF COUNCIL

The registrar reported that the following seven outgoing members of the Council: Mr. F. J. Fitzpatrick, Miss F. M. Flood, Mr. D. W. P. Boyd, Mr. J. F. Costello, Dr. J. A. Mitchell, Sir Thomas W. Robinson, and Mr. M. J. Kieran offered themselves for re-election, consequently voting papers were not issued.

THE PRESIDENT: I have great pleasure in declaring these seven outgoing members re-elected members of the Council. (Applause.)

TREASURER'S REPORT

MR. FITZPATRICK: Mr. President, Ladies and Gentlemen, first let me say how much I have been embarrassed by your kind remarks. I can only say that I have always tried to do my duty. There is very little, I think, that I can add to what Mr. Warwick has said with regard to the conditions of the Society. Silence gives consent, and we may take it that the re-election of the seven outgoing members of the Council is an indication that they have carried out their duties to the satisfaction of the members of the Society. The only feature of the statement of accounts and balance sheet before you I wish to refer to is the excess of income over expenditure, by over £500, for the year's working. Your premises have been kept well. Your classes have been a success. Everything has been carried out, as Mr. Warwick said, with the Council pulling their full weight. As treasurer I have tried to do the best I could to carry on the work of the Society. Your membership has gone up to a record figure, and shows an increase on last year. Your schools are satisfactory, and the income derived turned to the good work of the Society.

On the motion of MR. G. O'NEILL, seconded by MISS M. C. FOX, the treasurer's report was unanimously adopted.

VOTES OF THANKS

MR. BRENDAN SMITH said he had much pleasure in moving a vote of thanks to their worthy president, who had done so much for pharmacy during the past year.

MR. W. V. BOWIE, in seconding, said he would like to associate himself with Mr. Smith's remarks. The vote was carried with acclamation.

THE PRESIDENT, replying, said he could assure them he had a very happy year of office, and one he would look back upon as one of the proudest experiences of his life. During the past year he had received nothing but courtesy, kindness and consideration, not only from the members of the Council, but also from many people outside. On the occasion of his visit to Belfast for the Conference he had thirty members from the South, and he looked upon it as a great honour to have those men there supporting him. (Applause.)

MR. M. J. O'CALLAGHAN, moving a vote of thanks to the treasurer, observed that the excellent balance sheet presented was ample justification for the vote he moved.

MR. P. J. KILLACKY seconded the motion.

THE PRESIDENT: I have much pleasure in conveying this vote of thanks to our treasurer. You merit all that has been said about you. It was not until this year that I realised the amount of work and time you gave this Society. You gave it with a willing heart. It was a labour of love. (Applause.)

MR. FITZPATRICK: Mr. President, I deeply appreciate your kind remarks. I never felt I deserved them. All I do is co-operate with your worthy registrar.

MR. O'NEILL said for the third year it was a great pleasure to move a vote of thanks to their registrar. No task could give him more satisfaction than this.

MR. J. A. O'ROURKE, in seconding, said few people realised the amount of work their worthy registrar had to do, and the very difficult task he had to discharge with such courtesy and tact.

THE PRESIDENT, in conveying the vote of thanks to the registrar, said he wished to associate himself with it. He would like to tell the members that they did not see half of the work that fell on Mr. Kerr's shoulders.

Replying, THE REGISTRAR said it was a privilege to be the servant of a Council such as the Council of the Pharmaceutical Society. They overlooked his shortcomings and magnified his merits. The honorary treasurer and the president would have them think that he ran the Society, but that was not so.

At the request of the president, MR. FITZPATRICK outlined in detail the reconstruction and improvements being carried out to the Society's premises, and at the conclusion of the meeting the members made a tour of inspection.

Dietetics for Dogs

DURING recent years considerable attention has been devoted to canine dietetics, and manufacturers of dog foods have taken advantage of the latest researches on nutrition to ensure that their products contain vitamins and minerals. While this goes a long way towards the satisfactory feeding of the animal, the average dog owner still wants to know what his pet should be fed on, how often he should have a meal and what quantity at a time. Since dogs differ so much in size, manner of living, amount of exercise and habits generally, it is necessary to suit the food accordingly, but, and this is where the manufacturers of foods have met the animals' requirements, certain ingredients are essential in the foods of all dogs. As chemists are well aware, vitamin research represents the outstanding developments of nutritional science during recent years, and with the exception of C all are essential to dogs' health and nutrition. Abundance of food is worthless if it does not contain the accessory factors and minerals, while the more starch in the dog's food, the greater his need for B and E vitamins. The latter, perhaps the most easily affected of the factors by heat or ageing, is concerned with fertility, consequently it is of great importance to the breeder. Among the ailments that frequently arise due to deficient food may be mentioned constipation, skin troubles, hysteria, rickets, dentition and rheumatism. The feeding of proprietary foods is becoming more and more popular in the dog world, but it should not be assumed that every brand provides an adequate diet. In fact, in many cases the disappearance of hysteria from kennels has coincided with the discontinuance of biscuit or meal. For the house dog brown bread provides an excellent substitute. Rats have been extensively used in the investigation of nutritional problems, and so far as is known the vitamin requirements of rats and dogs are similar. The cheapest and simplest supplement is, of course, cod-liver oil.

Feeding Puppies

The two chief causes of ill-health in puppies are worms and injudicious feeding. Bitches' milk is a highly concentrated food, rich in casein and cream, being more than three times as strong as cows' milk, which contains a much larger percentage of water. A puppy's digestive organs are small, being adapted to the digestion of bitches' milk, and so are likely to become seriously deranged if the puppy is reared on cows' milk of which **it must obviously** have three times as much to get an equivalent amount of nourishment. When cows' milk is given, the stomach becomes distended—indigestion and diarrhœa follow. In addition, the kidneys get out of order owing to the extra work thrown on them by having to excrete such a large quantity of liquid. Until over six weeks old puppies are best left with their mother, but if removed earlier, or for other reasons she is unable to feed them, one of the brands of dried milk should be given. These milks are balanced foods and they can also be fed when weaning takes place. Gradually a scraped raw meat can be introduced into the diet. At eight months old only two meals a day are required.

The Diet for Adult Dogs

Opinions vary as to the best times for feeding. Watch dogs are best given their principal meal in the middle of the day, as a late meal tends to sleepiness, but whatever the feeding times they should be regularly adhered to. It is a mistake to standardise the dog's diet by giving him the same meals every day. It is reasonable that the scraps left by the master are good enough for the dog, but rich or highly flavoured foods should be withheld even though the dog does relish them.

Some owners never give their dogs bones, though the crunching and swallowing of hard bones keep the teeth in good condition till old age, while the fæces are rendered hard and compact, as is natural. Poultry, rabbit and fish bones are likely to splinter and there is great risk of perforation of the bowel. Bread, white or brown, plain or toasted, can with advantage be added to the main meal. As an alternative to red meat rabbit or fish can be given, in fact, should be given, once a week. Green vegetables should be incorporated in the food once or twice a week, and a little grated raw carrot might be supplied daily. When ill, dogs require frequent small quantities of nourishing food. Raw meat is a dog's natural food. and is one of the best things to give in all cases except dysentery or fever. The amount given at a time should be small, and it should be finely scraped. As an alternative one of the proprietary brands of meat juice could be administered, while in digestive troubles a predigested milk food is useful.

The preparations shown in the illustrations are those of Walker, Harrison & Carthwaites, Ltd. (Viscan); Stamina Foods, Ltd. (Fullomeats); A. F. Sherley & Co., Ltd. (Lactol Products); Vitality Vitamin Laboratories, Ltd. (Renovita); Allen & Hanburys, Ltd. (Plough Puppy Food); Bob Martin, Ltd. (Martin Milk); Chappel Bros., Ltd. (Ken-L-Ration).

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1935, p. 323.

(*From "The Trade Marks Journal," September 18, 1935.*)

"Q-Tol" ("Q" disclaimed); for lotions, etc., for external use (3). By The Fluenzol Proprietary, Ltd., 167-171 Thorndon Quay, Wellington, N.1, New Zealand. 556,146. (Associated.)

"Eydrex"; for medicinal chemicals (3). By Cooper, Son & Co., Ltd., 80 Gloucester Road, London, S.W.7. 561,306.

"Keenesan"; for all goods (3). By I. A. Keene, 65A Holborn Viaduct, London, E.C.1. 562,084.

"Oculex"; for medicinal chemicals (3). By R. J. Thomson, 18 Brookfield Road, London, W.4. 561,421.

"Multivite"; for medicinal chemicals (3). By The British Drug Houses, Ltd., 16 to 32 Graham Street, London, N.1. 562,272.

"Gonacrine"; for medicinal chemicals (3). By May & Baker, Ltd., 42/43 St. Paul's Churchyard, London, E.C.4. 562,304.

"Kenmalco"; for medicinal chemicals (3). By M. St.-J. Moses, 13 Lime Street, London, E.C.3. 562,376.

"Garrlep"; for medicinal chemicals (3). By F. A. J. Birtwell Lewis, 46 Showell Green Lane, Sparkhill, Birmingham. 562,449.

"Cro-Pax"; for surgical instruments, etc. (11). By B. D. Edwards, The Splendor Rubber Co., Bank Chambers, 5 Beastmarket Hill, Nottingham. 562,160.

"Kemdent"; for surgical instruments, etc. (11). By Associated Products, Ltd., 31A Denmark Road, London, W.13. 562,205. (Associated.)

"Vita Cocoa"; for cocoa (42). By Rowntree & Co., Ltd., Wigginton Road, York. 561,262.

"Swave"; for a depilatory (48). By L. E. Venn, 5 St. James's Place, London, S.W.1. 558,385.

"Tiranium"; for perfumery, etc. (48). By Dorothy Brooks, 22 Berkeley Square, London, W.1. 559,115.

"Euthone"; for hair restorers (48). By F. A. M. Sparey, 10 Felhampton Road, London, S.E.9. 560,283.

"Parfums Revillon" with design of horned animal jumping through letter "R" ("Revillon" and "R" disclaimed); for perfumery, etc. (48). By Parfums Revillon, 42 Rue la Boëtie, Paris, France. 560,562.

"Sin"; for perfumery, etc. (48). By Ciro Pearls, Ltd., 178 Regent Street, London, W.1. 561,601.

"Never Say Die"; for perfumery, etc. (48). By Nopara, Ltd., 59 Oak Grove, London, N.W.2. 562,011.

Sulphuric acid in London's atmosphere.—According to Dr. R. Lessing, consulting engineer and chemist, there is a daily liberation of over 1,000 tons of sulphuric acid equivalent into the atmosphere of London.—"City Press."

Trade Notes

Barlova is the name of a new health drink placed on the market by Nobby's Products, Ltd., Hyde.

Butil.—The Butywave Co., 5 Rampayne Street, London, S.W.1, inform us that revised wholesale prices for Butil will come into force on October 20.

Christmas showcards.—J. C. King, Ltd., 42 Goswell Road, London, E.C.1, have issued a special list (No. 1530), printed in colours, of the showcards they are offering for Christmas trade.

Amami bonus.—Prichard & Constance (Manfs.), Ltd., 11 Broad Street, London, W.C.2, give particulars on another page of a bonus offer in connection with Amami manicure products.

Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.1, announce the publication of the 1936 edition of the "Wellcome Photographic Exposure Calculator and Handbook."

Representation in South Africa.—Petersen, Ltd., Barrack Street, Cape Town, are anxious to get in touch with manufacturers in this country who are desirous of placing goods on the South African market.

La-Toja Soap.—Ajotal, Ltd., 16 Woodstock Street, London, W.1, inform us that La-Toja soap, which for some years has been sold mainly by recommendation, is now to be advertised to the public and free samples distributed. The soap, which is a high-class toilet article, is stated to contain natural mineral salts of the famous Spanish spa.

Nufix.—Walden & Co. (Nufix), Ltd., The Hyde, Hendon, London, N.W.9, are undertaking extensive advertising of their Nufix hair dressing, and chemists should not overlook the fact that a special bonus offer is available.

Creme-bloc Jabley.—Pharmaceutical Products, Ltd., Lawrence Road, Tottenham, London, N.15, have been appointed distributors in England and Wales for Crème-bloc Jabley. It is announced that this toilet product is to be nationally advertised.

Personal weighing machine.—Automatic Machine Co., Ltd., Hong Kong Works, Wembley, draw attention in their advertisement in this issue to a personal weighing machine for which certain advantages are claimed. The machine is stated to be trouble-free and is supplied on a week's trial if desired.

Shop window illumination.—Chemists who have not already received a copy of the folder (F6344) published by the General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2, can obtain one on application. Some interesting information is given regarding modern shop window illumination.

A new price list.—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, have published a price list with short descriptive notes of their preparations. As was announced in the *C. & D.*, October 5, p. 414, this company has been formed to ensure increased efficiency in the distribution of the specialty products hitherto sold by May & Baker, Ltd.

"C. & D." Veterinary Window

Display and background by J. C. King, Ltd. Description on following page

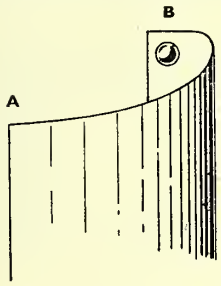
Displaying Veterinary Goods

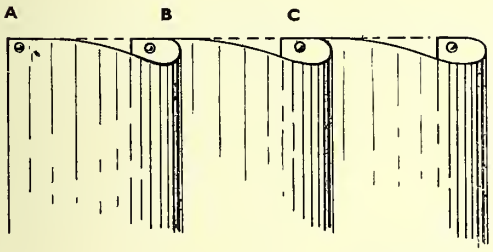
Main Veterinary Window

THE style of windowdressing followed in the *C. & D.* model window reproduced on the preceding page was dictated, firstly, by the nature of the goods, and secondly, by the probable weather conditions prevailing at the time of the display. Unexpectedly enough, most of the products to be shown were found, when assembled, to be generally small in size. It is conceivable that a massed display would have been more applicable to the range of preparations sold in the older type of veterinary business, especially where there is a large sale of some local speciality. Generally speaking, however, the goods illustrated are of the type most widely distributed to-day. For that reason, an "open" method of display was adopted, items being shown either as individual units or in groups of at the most half a dozen. The display stands employed were of new designs in black opalite glass and chromium tubing of square section. The stands in the foreground were Nos. 1564 and H3275. The two tall stands in the background are H3249. All were supplied by J. C. King, Ltd., 42-60 Goswell Road, London, E.C.1.

Method of Papering

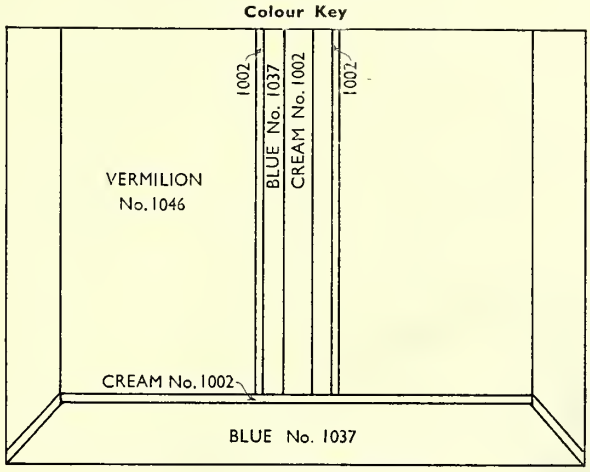
Not all of the cartons and packings were so colourful as to result in attractive displays without additional brightening, and for this reason a red background, No. 1046 in the Pullall series (J. C. King, Ltd.), was selected, with trimmings of deep sea blue (1037) and cream (1002). The floor was covered with blue crêpe of the same number. The almost universal dampness of the season was considered to militate against the use of stretches of crêpe paper, and a background of undulations was therefore provided. The actual details of procedure may be of interest. Taking about two-thirds the number of complete packets of crêpe required to measure, in total width, the



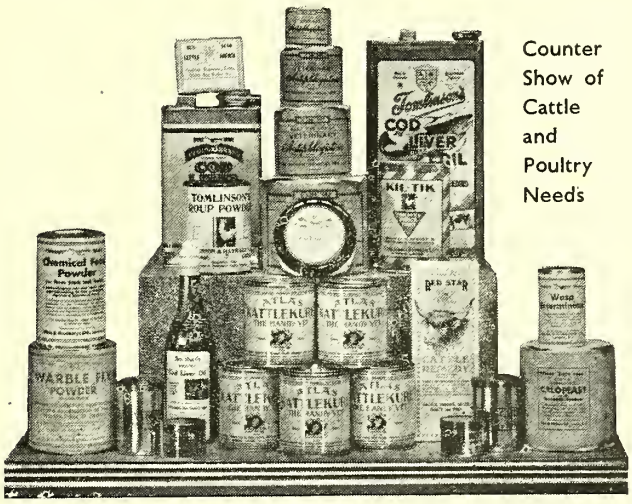


combined length of the window back and sides, each fold was cut transversely into two. The first, after being doubled under at the end in the usual way, was fixed at the top left-hand corner to the top left-hand corner of the left side of the window (point A). The right-hand edge of the 10 in. width of crêpe was then folded back about 2 in. and fixed with a drawing pin as at B. Taking now the other end of the length of crêpe, the same process was repeated by fixing near B and at C, and further lengths of crêpe utilised in the same way until the middle point of the back of the window was reached. A similar succession in the reverse sense, that is from the right-hand edge of the right-hand side of the window, was followed by cutting the lengths of paper in two at the base of the window, and fixing with drawing pins as at the top. A band of alternated cream and blue gave the desired finish.

A small point is the separation of the red background from the blue base by means of a tube of cream. The accompanying diagram makes the arrangement quite clear. The goods displayed are, on the centre stand, Allenbury's Chemical Food



Powder, Ringworm Cure, Cremor Alkalinus, Dog Shampoo, Puppy Food, Warble Fly Powder, Worm Capsules and Caloplast (poultice) and Southall's Poultry Cod Liver Oil; left foreground: Allenbury's Worm Exterminator and Rat Poison Tablets, Tomlinson & Hayward's Hayco Dressing, Gell's Foot Rot Ointment (Hirst, Brooke & Hirst, Ltd., Leeds), Harvey's Horse Remedies showcard, Stamina Terrier Meal, Viscan Gems, Viscan, Fullomeats, and Benbow's Dog Mixture; left background: Naldire's Dog Soap, Martin's Cleansfur and Martinmilk; right foreground: Tomlinson's Paint Sticks, Rodine Rat Poison, Southall's & Allenbury's Cod Liver Oil, Antiphlogistine (veterinary), Red Star Cattle Remedy and Drench (Southall Bros. & Barclay, Ltd.), Tomlinson's Roup Powder and Kil-Kof for poultry and Atlas Kattlecure (Carter Bros., Shipley); right background: Sherley's Dog Soap, Worm Capsules, Fit Tablets, Cough Tablets, Shampoo, etc.; shelf edges: Naldire's Dog Powders. The lighting of the windows is a matter of some importance. In the present instance, the ideal arrangement would be strip lighting along the lower front in addition to the usual roof lighting. This is undeniably a display which repays plentiful illumination, and for ordinary purposes all lights should be on. To meet photographic requirements, however, an even lighting was secured by cutting out one row of roof lights and allowing a longer exposure.



Counter Show of Cattle and Poultry Needs

An Alternative Window Show

from two counter display-units

FOLLOWING up a window display with displays of the same goods inside the shop has been proved to result in more sales than a window show alone. This is still more true when the counter display is in groupings similar to those seen in the window. For this reason, the policy of dressing windows so that complete sections may be taken out and re-erected inside the shop is worth considering. The illustration at the head of this page shows a window dressed with this in view. Identically the same goods have been used as in the *C. & D.* model window illustrated on p. 446. Along the front of the window, to the width of a strip of crêpe paper, is a display of dog and cat preparations only. The use, in the manner shown, of glass ovals and rectangles, not only facilitates re-erection inside, but is to be recommended for its own sake as a means of display that is orderly, attractive, easily kept clean and, when on a shop counter, conducive to unobstructed vision between customer and assistant, as well as of clear and rapid mental impression on the part of the customer. Such a method of display has the merit of regarding the whole counter, or a long section of it, as the unit of display. It is most effective in results if alternated with other methods of counter display. The background group from the window, shown as a separate display on the preceding page, can be erected to one side of the dog display on the same counter, or with excellent effect on a small table or showcase in the shop itself.

Each unit, that is, in this system of display can be used alone or combined with the other in a number of ways for shop and counter. It has frequently been found that a window display achieves maximum results, not during the period of showing, but actually after it has been removed. This is especially the case when the subject of the window is seasonal, as hot water bottles, or is a complete department, as shown here.

Counter Show of Dog Foods and Medicines

Births

Notices for insertion in this column must be properly authenticated.

HOUGHTON.—At 500 Prescot Road, Old Swan, Liverpool, on October 8, the wife of Leslie D. Houghton, M.P.S., of a son.

Marriages

BUCHANAN—BRAND.—At High Church, Airdrie, on October 2, William Buchanan, M.P.S., to Agnes S. W. Brand.

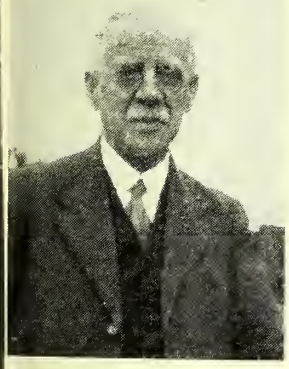
MCCUNE—BLAND.—At St. Agnes' Church, Leeds, on September 30, John Baird McCune, M.P.S., N.I., to Edith Bland.

Golden Wedding

HORNBY—BUCKLEY.—At Teddington Wesleyan Church, on October 6, 1885, Alfred Hornby, Ph.C., to Alice Buckley. Present address: 59 Amherst Road, Hastings.

Deaths

CLARK.—On October 4, Mr. James Clark, Ph.C., late head of the home department at the London offices of Burroughs, Wellcome & Co., aged seventy. Owing to indifferent health Mr. Clark retired in February of last year, after thirty-two years' service with the firm. Born in Aberdeenshire, he was apprenticed to I. & J. Urquhart, Aberdeen. He remained for a time with Messrs. Urquhart after passing the minor examination in 1886 and before taking a position with Mr. John Whitfield, Scarborough, with whom he remained until he passed his Major examination in 1889. He then returned to Aberdeen to manage Messrs. I. & J. Urquhart's business for four years, and subsequently was in business for himself in the same city for several years. During this period he took an active interest in the Aberdeen Pharmaceutical Association, of which he was president in 1898-99. In 1902 Mr. Clark left Aberdeen to join the staff of Burroughs Wellcome & Co. He is survived by his widow and son.



MR. J. CLARK, PH.C.

DUDLEY.—In a London nursing home, on October 3, Mr. Harold Ward Dudley, Ph.D., F.R.S., aged forty-seven. Dr. Dudley was one of the leading biochemists of his generation. His researches in the pituitary gland, insulin, histamine and ergometrine mark notable progress in biochemistry, and he was joint editor of "The Biochemical Journal" for six years.

FAIRCLOUGH.—At 25 Kensington Palace Gardens, London, W.8, on October 7, Anna, the dearly loved wife of Mr. Revell Anthony Fairclough (Lennon, Ltd., 12-14 Lafone Street, London, S.E.1).

GILES.—On October 4, Mr. Arthur Alexander Giles, chemist and druggist, for several years in business in High Street, Ventnor, aged fifty-seven.

MCCUTCHEON.—On October 6, Mr. James McCutcheon, R.O., Ardee, co. Louth. Mr. McCutcheon passed the Registered Druggist examination in 1914.

WRIGHT.—At Northampton General Hospital, on October 1, Mr. William Wright, M.P.S., 100 High Street, Rushden. Mr. Wright was born forty-seven years ago at Banchory, Kincardineshire; he qualified in Edinburgh and went to Perth. He removed to Rushden in 1920, and eleven years ago established his business in the High Street. He was of a gentle and generous disposition, and his untimely passing will be greatly felt by his many friends in the trade.

Personalities

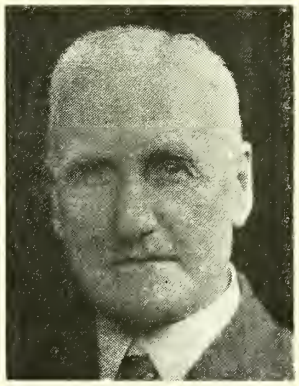
MR. JOHN KEALL, ex-president of the Pharmaceutical Society of Great Britain, has been nominated as Mayor of Wandsworth for the coming year.

MR. H. O. THOMAS, chemist and druggist, Abersychan, Mon., has been installed Worshipful Master of the Kennard Lodge of Freemasons, Pontypool.

BRO. ERNEST J. GEORGE, S.W. (Ernest J. George & Co., chemists' valuers, Walsall), was installed W.M. of Hatherton Lodge, No. 2474, on September 26.

MR. WILFRID HILL, chairman of the County Chemical Co., Ltd., contributed to "The Morning Post" of October 8 an interesting letter on business conditions in Italy, where he has been motoring.

AFTER filling the office of chairman of Wright, Layman & Umney, Ltd., manufacturing chemists, London, S.E.1, for close upon twenty years, Mr. Herbert C. Wright has decided to lessen the strain associated with those duties by relinquishing the position. His specialised experience will remain at the service of the company, for he will still be on the board of directors. Thus an unbroken link of association with the originator of Liquor Carbonis Detergens and Wright's coal tar soap has continued ever since Wright, Sellars & Layman became established in Fish Street Hill in 1849, and is still existing. The new chairman is Mr. E. A. Umney, Ph.C., who became a partner in Wright, Layman & Umney, Ltd., in 1898. He has been a director of Wright, Layman & Umney, Ltd., since the company was formed in 1898, and deputy chairman since 1926. The energy and resourcefulness of the late Mr. Charles Umney may be expected to be fully maintained by the present successor to the chairmanship.



MR. H. C. WRIGHT, PH.C.

Coming Events

Tuesday, October 15

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 8.30 p.m. Opening meeting of the session. Explanation of the "Chemists' Friends" scheme.

Leicester College of Technology. Distribution of Prices in Department of Pharmacy by Mr. John A. Bolton. Room 45 of the College, 8.15 p.m.

Wednesday, October 16

National Pharmacists' Union (North Devon Branch). Annual meeting at Chamber of Commerce, Exeter, 3.45 p.m.

Reigate, Redhill and District Pharmacists' Association, Red Lion Hotel, Coulsdon, 7.15 p.m. Annual dinner-dance.

Guild of Public Pharmacists, 17 Bloomsbury Square, London, W.C.1. Aubrey Lewis, M.D., M.R.C.P., on "Drugs and Pathological Medicine."

Thursday, October 17

Western Pharmacists' Association, Stewart's Restaurant, 50 Old Bond Street, London, W.1. Reception, 7 p.m. Supper, 7.30 p.m. sharp. Whist Drive. Tickets, 5s.

North-East and East London Pharmaceutical Association and Branch of the Pharmaceutical Society, St. John's Institute, Norwich Road, Hackney, 3 p.m. Annual meeting.

Friday, October 18

Guild of Public Pharmacists (Liverpool Branch), Royal Institution, Colquitt Street, 8 p.m. Mr. R. H. Henriksen on "The Chemistry of Vitamins."

Telegrams: "Atolene Sedist London."

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No new course for the P.S. Examination will commence in January, 1936, as after Nov. 1st, 1935, new regulations apply which require a nine months' course from Oct., 1936.
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"THE CHEMIST AND DRUGGIST," 28 Essex Street, W.C.2

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

W/310. Betty Joel perfumes
T/210. Comet brand cod-liver oil
E/210. Gordon Moore's nail varnsh
M/510. Gumora (gum-massage dentifrice)
B/410. Minera vanishing cream (Standard Pharmaceutical Laboratories)
M/210. Safolene liquid soap
T/110. Streamline depilatory (puff pattern)
T/110. Washable sanitary towel of sponge rubber

THE
CHEMIST AND DRUGGIST
VOL. CXXIII. October 12, 1935 NO. 2905

The Veterinary Chemist's Business

In this number we present a series of articles on subjects which will, we trust, be of special interest to chemists who deal in animal medicines. With the enormous increase in the number of dog owners in this country it is obvious that the trade in veterinary medicines for dogs alone must also have increased, and chemists who have taken up this branch of trade have accordingly benefited. In the treatment of disease among the larger animals such as cattle and horses, as well as among animals raised in large numbers, such as sheep and pigs, the supplying of medicines is a highly specialised branch of veterinary pharmacy. But there is a very large amount of business to be done in catering for the needs of breeders and owners of the smaller animals, including dogs and cats, to say nothing of birds. Veterinary medication in diseases amongst stock tends towards the use of serological products. In the treatment of dog distemper, the pharmacist must at once accept the fact that he has no place so far as the treatment with distemper serological products is concerned. There are other serious diseases in which serological treatment direct by the veterinary surgeon is essential. Amongst these are swine erysipelas, braxy and lamb dysentery. But it is a good policy to be ready to cater for the needs of new industries and in this connection we have selected as a subject for an informative article the incidence of diseases of silver foxes, the breeding of which is rapidly becoming an important industry in this country. We have obtained a number of illustrations to bear out this statement. The treatment of blackhead in turkeys is one which has recently received the attention of a number of investigators. Fairly satisfactory results have been obtained by the use of organic arsenical compounds, and we describe elsewhere in this issue the method whereby blackhead in turkeys is treated. Widespread interest has been aroused by the experiments carried out by veterinary surgeons of the Government of Northern Ireland with Spahlinger's bovine vaccine during the years 1931–34. An abstract of the report appears elsewhere. Dietetics is a subject of immense interest in humans and it is reasonable, therefore, to assume that in veterinary matters the question of suitable diet is of growing importance. Dog feeding problems are discussed, and illustrations of well-known products issued by manufacturing veterinary chemists are shown. A point of special interest may be noted on our "Miscellaneous Inquiries" page, which this week has been changed to "Veterinary Inquiries." These have been specially selected this week with a dual purpose. Firstly, to give the specialised information at an appropriate time, and, secondly, to indicate that amongst the multitude of inquiries received by The Chemist and Druggist there are many from chemists who conduct a flourishing veterinary business. Suitable window displays will go a long way towards winning a farmer's interest, and are a means of attracting trade that is denied to the wholesaler or "vet." In other pages are illustrated two model windows of veterinary preparations, and an idea for displays for use outside the shop.

Sales Confined to Chemists

It may be remembered that in the early part of this year we recorded the activities of the chemists of Plymouth and those of North Wales in evolving what were known as "Out of Friends" schemes. The title and some of the details of these projects were open to criticism; but the movement has had an important sequel. Matters were advanced a step by the publication, in our issue of March 23, of a letter from the managing director of Westminster Laboratories, Ltd., suggesting that manufacturers who desired the full co-operation of chemists should organise themselves into a group which might be called "Chemists' Friends." The Executive of the National Pharmaceutical Union lost no time in considering this suggestion, and at its meeting on April 24, decided to institute a "Chemists' Friends" scheme on the lines of a formal agreement with any manufacturers who were willing to be bound to supply certain goods solely to chemists for a definite period. The text of a letter sent out during the present week to every chemist in business in England and Wales will be found in this issue; and further reference will be found in our advertisement pages both to this scheme and to a similar undertaking fostered by the Ulster Retail Drug Trade Association. The N.P.U. is sending out a second letter, containing another announcement of its scheme, to branch secretaries.

The English scheme, which at the moment is the more fully developed of the two so far as announcement is concerned, is definite and, we may add, modest in its scope. It will be seen from the N.P.U. advertisement referred to that it covers two classes of articles, branded pharmaceutical therapeutic preparations and branded surgical and medical goods. On reading carefully the circular issued by the secretary of the Union, chemists in business will realise at once that it deals with classes of articles, and not necessarily with the whole output of any of the manufacturers who will sign the form of contract prepared. It is obvious that a given manufacturing house may have ranges of goods which are not likely to enter a chemist's shop in any circumstances, and these remain untouched by the scheme, as also does the export trade. We are doubtful as to the expediency, in a changing world, of prescribing a minimum period of seven years for the continuance of the agreement, but this is a point probably subject to reconsideration if occasion arises. It remains for chemists to respond immediately to the appeal of the Union Executive for a vote of confidence, so that the parties concerned may get to work.

Active Markets

The volume of business done in the crude drugs markets during the past few weeks has gradually increased and, in a number of cases, spot and shipment prices have advanced sharply. Details of the latest movements will be found in our Trade Report. Importers and dealers had become tired of holding normal stocks and of seeing values decline, and, at the sources for these natural commodities, the producers had restricted their crops on account of poor returns. Now that a brisk demand has set in, even if to some extent it be artificial, there is not enough to go round in some instances. The leading primary markets, handling cereals, oils, metals, foodstuffs, etc., have all firmed up. This general advance is significant and it will no doubt carry with it many secondary markets. It can be said that more business has been done in crude drugs during the past two or three weeks than for some months previously.

Blackhead in Turkeys

BLACKHEAD, a contagious and fatal disease usually confined to turkeys, originated in North America and spread to other countries. The disease is characterised by thickened and ulcerated cæca and a swollen and necrosed liver. The popular name of blackhead is misleading as the head of an affected bird rarely becomes black or purple; the black head and wattles are late symptoms due to cyanosis or vitiated blood. The disease is prevalent on many turkey farms and causes heavy annual losses.

The Cause of Blackhead

The organism which is generally accepted as the cause of blackhead or entero-hepatitis is a protozoon which has been variously designated as *Amoeba meleagridis* (Theobald Smith), *Histomonas meleagridis* (Tyzzer), *Trichomonas meleagridis* (Cole and Hadley). The latter authorities in addition suggested that *Coccidium eimeria* might be implicated. The organism invades the cæca, liver and spleen, and causes swelling and necrosis of these organs. As is general with protozoa and bacteria, there are different strains, some more virulent than others, and some, although these are uncommon, more or less drug resistant. Another factor associated with blackhead is the cæcum worm (*Heterakis gallinæ*), which is often present. The cæcum worm weakens the cæca or blind guts by causing ulceration and inflammation; it lowers the vitality of the bird and allows the blackhead parasite to gain access to the blood through the damaged guts and cæca. The female cæcum worm deposits eggs of microscopic size, which are excreted with the droppings of the affected birds. These eggs may be taken up with the food of other turkeys and passed into their cæca, where they hatch out and repeat their life cycle. E. E. Tyzzer has shown that the causal organisms may be carried in the embryonic eggs of the cæcum worm and that the hatching of the eggs are necessary for the release of the organisms. This is of interest as it is the only example of intestinal worms acting as carriers of infectious disease.

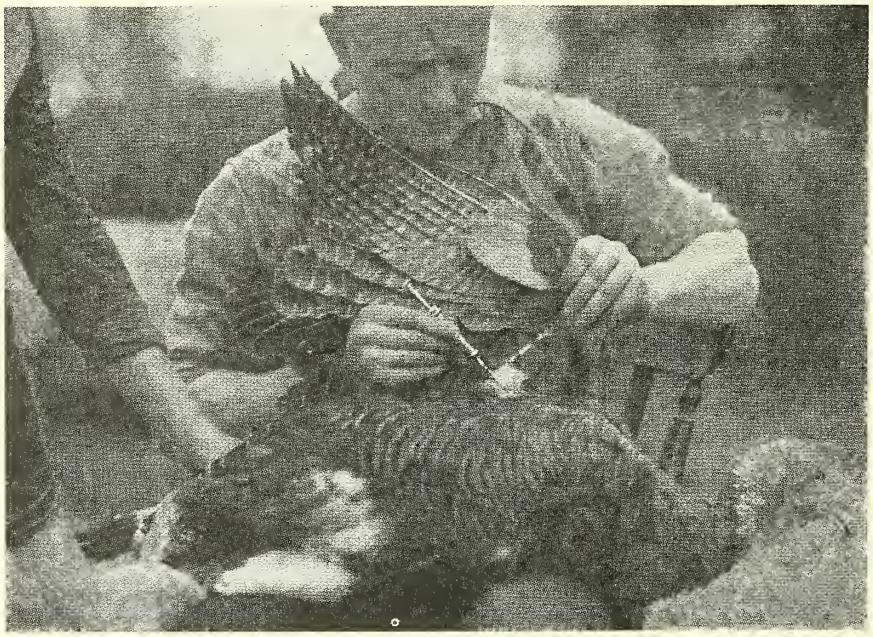


Illustration by courtesy of Boots, Ltd.

The Symptoms of Blackhead

Blackhead may occur at any period of the bird's life, but it is naturally more common at times of lowered resistance, e.g., when "shooting the red" or moulting, and when birds have a chill or other illness. At the commencement of the disease the birds lack the usual ravenous habits of the healthy turkey and tend to separate and lag behind the remainder of the flock. The droppings are of a fluid, foamy nature and a typical bright yellow colour. The birds develop a dejected appearance accompanied by a complete loss of appetite and a staggering gait. It is considered that these symptoms become apparent about a fortnight after infection, and once the symptoms show, the birds, if untreated, usually die within twenty-four hours. There are exceptional cases, however, depending on the virulence of the invading parasite, and birds may live for three or four days. Coccidiosis might be attributed to blackhead, as most sick birds have a similar appearance to the uninitiated. Blackhead can, however, be diagnosed by the *post-mortem* appearance of the cæca and liver.

Method of Infection and Spread

The following are the chief sources of infection and spread of blackhead in turkeys:—Turkeys which have the disease in a chronic state and have not succumbed to it may be apparently well but act as carriers, their droppings being infectious; fowls do not usually die of blackhead but act as carriers of the disease by means of their excreta; game (pheasants, partridges and so forth) are subject to the disease and may contaminate the ground with their fæces whilst flying over it.

The Prevention of Blackhead

If birds can be kept healthy and fit, free from complicating diseases, and if such living conditions as dampness and draught can be avoided, then they naturally have a better chance of combating blackhead. Flocks should not be allowed on land upon which the disease has occurred during the previous two years. In the case of intensive rearing upon wire netting the vegetable food should be well washed, as cases have been reported where, although the birds have never come in contact with the ground, they have contracted the disease, and it is thought that this might be due to such things as dirty lettuces. Intestinal worms cause irritation and render birds more liable to infection. If these parasites are suspected, a good vermifuge should be used. In 1933 an organic arsenical preparation consisting of a solution of arsphenamine diglucoside in glucose solution was introduced for the prevention and treatment of blackhead, and the results obtained have been most satisfactory. The arsenic present in this preparation is much less toxic than ordinary arsenic, and when injected quickly circulates through the system, destroys the infecting organism and is then rapidly eliminated in the excreta. The period of immunisation after injection varies from six weeks to twelve months. Although the minimum period of six weeks of immunity is usually exceeded, this time is of great value as it enables the birds to withstand blackhead while "shooting the red" when they are more liable to contract it and die. The best time to give this preventive dose is when the chicks are four to five weeks old. Old birds, although subject to blackhead, do not always die, and after a while recover and appear normal. Nevertheless, they are carriers and pollute the ground with their excreta, so that when chicks are hatched they may contract the disease from the contaminated surroundings. It is therefore advisable to inoculate the stock birds prior to breeding. The suggested dose is 1.5 c.c. The question often arises—is there any danger to the consumer of a bird which has been treated in this way? Actually there are many shell fish, such as oysters, which contain a larger percentage of arsenic than is to be found in a turkey soon after injection, and as this arsenic is rapidly eliminated there is no danger at all. No bird, however, should be killed or sold until three weeks after the last

injection, by which time all detectable arsenic will have left the tissues. Should a bird die during this period of three weeks it must not be eaten or sold.

The Treatment of Blackhead

Treatment consists of the intravenous or intramuscular injection of solution of arsphenamine diglucoside. Absorption of the drug is very rapid in both cases, but it is absorbed more rapidly when injected into a vein than into the flesh. The intramuscular method of injection should be used if the intravenous technique be found too hard to follow, although once the intravenous method has been mastered it is surprisingly simple.

Method of Administration

Sterilise the needle and syringe by boiling for five minutes, remove from the water and allow to cool. Sterilise the rubber cap by the application of cotton-wool soaked in tincture of iodine. Plunge the needle of the syringe through the rubber cap, invert the vial and withdraw the correct dose. The puncture in the cap will close automatically when the needle is withdrawn. Before injecting the solution, hold the syringe vertical, needle uppermost, so that any air in the syringe will rise towards the needle. Now slowly push up the plunger until all air has been driven out of both syringe and needle. Do not wipe the needle. Place the bird as shown in the illustration or on a table or chair and lay it on its side. An assistant should hold the legs with one hand and place his other hand on the body to keep the bird quiet. Bend back the wing, and a vein running across the second joint will be observed. (This is the same vein as the one used for a blood test.) Any other suitable vein may be used, but this vein is probably the most accessible. Place the wing at an angle so that the circulation is impaired and the vein becomes swollen. Remove any interfering feathers. Sterilise the skin by wiping with a piece of cotton-wool soaked in tincture of iodine. Place the needle along the line of the vein in the direction of the blood stream, that is, towards the bird, and in the same plane. Carefully insert the needle into the vein. Do not allow the needle to go right through the vein. To determine if the needle is in the vein, slightly withdraw the piston. If blood is seen to enter the syringe freely the needle has been correctly inserted. Inject slowly. Withdraw the needle and apply pressure over the puncture with the finger-tip for a few moments to stop the bleeding. Again wipe the surface with cotton-wool soaked in tincture of iodine. After each injection draw some distilled, or recently boiled and cooled, water into the syringe and wash out.

Intramuscular Injection Technique

Place the bird as shown and expose the fleshy back part of the legs by removing a few feathers. Find, with the fingers, a suitable soft spot free from sinews. Sterilise the surface at the intended site of injection by the application of cotton-wool soaked in tincture of iodine. Thrust the needle sharply into the flesh and gently push it at right angles to the surface until the bone is felt. Withdraw about a quarter of an inch and inject slowly. Remove the needle quickly and massage the site of injection for a few seconds.

Once blackhead has been diagnosed on a farm the flock should be carefully watched, and directly the birds are found to lag, behind, lose their appetite or have yellow droppings they should be separated and injected. After birds have received treatment they should be kept on new ground apart from the rest of the flock. They remain immune to re-infection for a period varying from six weeks to twelve months. Should a bird not respond to treatment, wait five days and then give a second larger injection of half as much again. The following dosage table is based on the work of various authorities:—

Age of bird	Arsphenamine solution	Age of bird	Arsphenamine solution
1 week	0·1 c.c.	6 weeks	0·5 c.c.
2 to 3 weeks ...	0·2 c.c.	7 weeks	0·6 c.c.
4 weeks	0·3 c.c.	8 weeks	0·8 c.c.
5 weeks	0·4 c.c.	9 to 15 weeks ...	1·0 c.c.

15 weeks onward, 1·0—1·5 c.c.

The way in which the arsphenamine solution acts is not definitely known. It is probably converted in the body into a proteo-metallic compound called "arsenoxyl." This latter product, which is extremely active, probably kills the invading organisms by combining with them. The dead organisms consisting mainly of lipo-proteins, then stimulate the body tissues to form lipo-proteolytic ferments, which circulate in the blood stream for several months and are capable of killing further blackhead organisms. Thus the bird is rendered immune to further infection although all detectable arsenic has been eliminated. Some birds' tissues react to a greater extent than others and form greater quantities of the lipo-proteolytic ferments, which consequently enables them to recover more rapidly. On the other hand, the tissues of some birds do not react properly to the arsenic, cannot generate sufficient antibodies, and therefore cannot be cured by this means.

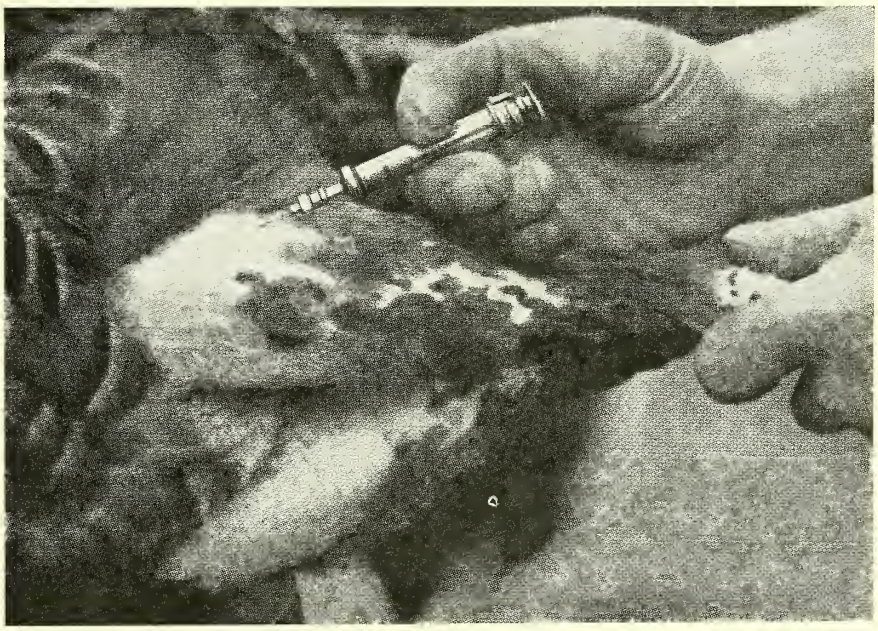


Illustration by courtesy of Boots, Ltd.

Disinfection

The first, and perhaps the most important, part of the disinfection of an infected building is the cleansing of the interior by scraping and sweeping. The droppings, scrapings and litter should be burnt or mixed with quicklime and removed from contact with birds. The walls and roosts should be scrubbed with hot water containing caustic soda (10 per cent.) to remove dirt and grease. This also acts as a disinfectant. The house may then be washed or sprayed with a disinfectant such as 5 per cent. solution of carbolic acid, 2 per cent. solution of compound cresol, or 2 per cent. solution of formaldehyde. The infected runs should be top-dressed with ground quicklime (2 tons per acre), and, where practicable, ploughed up and left vacant for six months. The safest procedure is, however, to exclude turkeys from the infected premises for two years. Carcasses of dead birds should either be burnt or buried in quicklime.

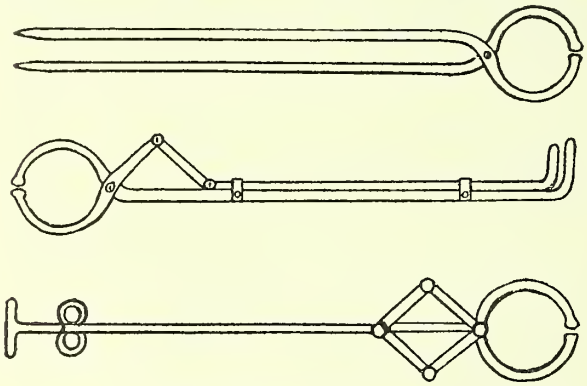
A useful pamphlet on "Blackhead in Turkeys" is obtainable from H.M. Stationery Office.

Disease in Silver Foxes

THE breeding of foxes in captivity has been established on a large scale in Canada, America, Norway, Germany and Russia for some considerable time past, and during the last ten or fifteen years quite a large fox-farming industry has grown up in Great Britain. The fox which is bred for its pelt is not the red fox native of our own island, but is descended from the wild red fox of North America, and there are three varieties known as the silver, blue and cross respectively. The black fox has been farmed in some countries, but the pelt is not in such demand as that of the other varieties. The silver fox is the most popular variety among British farmers, but the blue fox is also bred to a considerable extent.

Infectious Diseases

Foxes in captivity are prone to a number of diseases, many of which are similar to those occurring in dogs, and can be treated by methods similar to those used for dogs. Foxes are said to be liable to distemper, and although this term is often erroneously used to refer to many diseases for which no cause is apparent, it has been shown that the fox, like the dog, is susceptible to distemper of virus origin. No outbreak of virus distemper has been reported in this country, but the disease has appeared in epidemic form in Canada. Like dogs, too, young foxes are liable to various forms of gastro-enteritis caused by micro-organisms of the paratyphoid group. Fox-paratyphoid occurs especially in young animals, and may be of considerable



Types of catching tongs

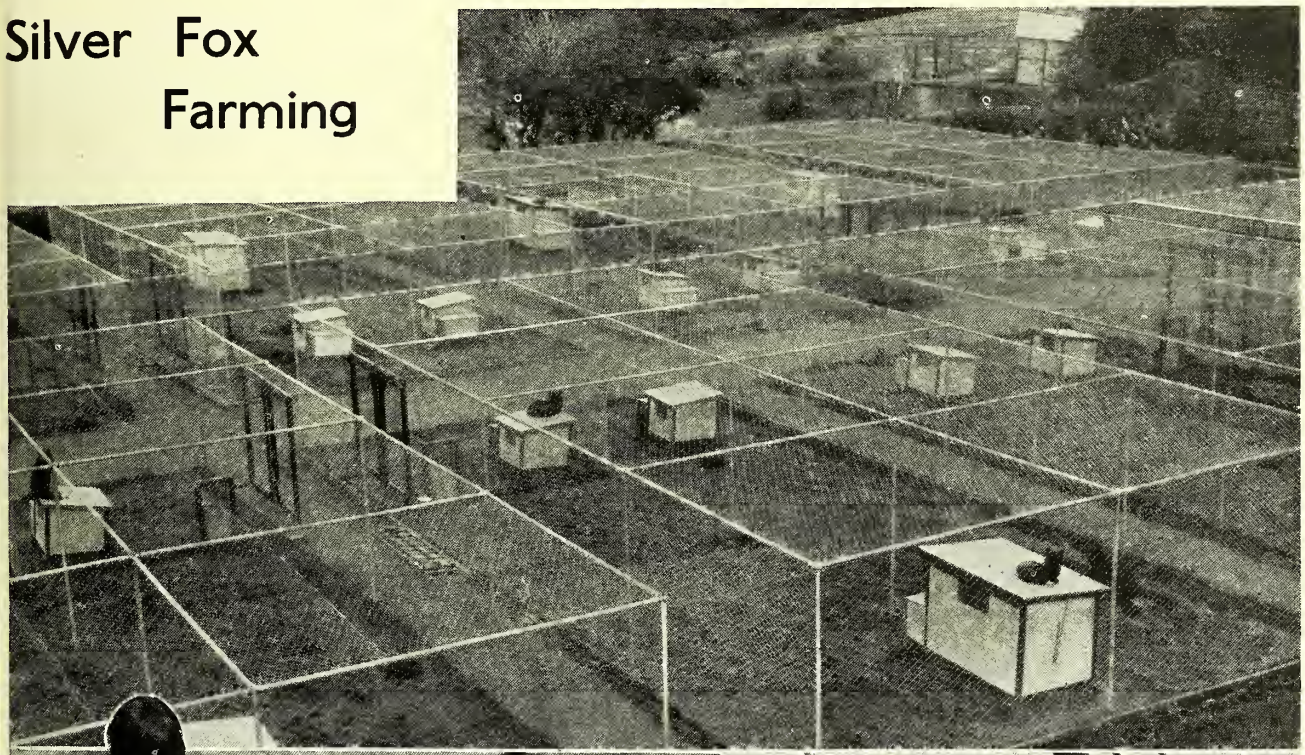
duration, leading to marked loss of weight. Apart from symptoms of gastro-enteritis, there may be other complications. In summer there is usually no purulent discharge from the eyes or nose, but in winter this is a common symptom, and at times the disease affects the whole of the respiratory tract. The animal suffers from marked weakness, the eyes are sunken and occasionally there may be convulsions. Vaccines prepared from the micro-organism causing the disease are said to be effective in controlling epidemics. Foxes may suffer from a form of encephalitis, due to a filter-passing virus which affects the central nervous system. Death from this infection is usually sudden, and preceded by no other symptom but loss in weight, although sometimes there may be excessive excitability, paralysis or convulsions. Nothing other than rigid quarantine can be advised as control measures for this infection. Leptospiral jaundice (Weil's disease) is said to be one of the most infectious diseases of the fox, and outbreaks have been reported in both the silver and the blue varieties. Jaundice does not occur in every case, but the symptoms of this disease are in the main similar to those seen in the dog, and include a discharge from the eyes (which is at first watery but later becomes purulent in character), persistent diarrhœa and progressive emaciation, followed by coma and death. Post-mortem examination shows evidence of severe diarrhœa, marked jaundice, congestion of the lungs, and spleen, and organisms resembling the *leptospira ictero-hæmorrhagiæ* can be isolated from various organs. It seems probable that, as in the case of dogs, the source of infection is the "carrier rat." As a rule young foxes are mostly affected, and a sudden death may be the first indication of the infection. Affected animals do not, as a rule, live for more than a day or two. A vaccine is used by veterinary surgeons for immunising foxes against this disease. Usually two doses are given, and the results are satisfactory. Outbreaks of the disease should be dealt with by injecting all foxes that have been in contact with infected animals with antileptospiral serum and immunising the remainder with vaccine. Those that have been in contact and have received serum should have vaccine later. Pneumonia and pleurisy may be caused by poorly ventilated, wet pens, or by standing water in the runs during the winter and spring, or may be a sequel to debilitating disease or parasitic infestation. Lung worms or other foreign bodies in the trachea and lungs may also give rise to bronchitis or bronchopneumonia. Severe forms of pneumonia are associated with streptococcal infection. When well established, pneumonia is difficult to treat, owing to the fact that it usually occurs in the acute form, and because of the extreme nervous character of the fox. Apart from sedatives and medicines to relieve the symptoms the most useful treatment is good nursing and keeping the animal in a dry, quiet place with plenty of fresh air.

External Parasites

Foxes are liable to infestation with parasites, both externally and internally. Sarcoptic mange is not common, but when once the mite causing this condition gets hold considerable loss may be expected, as it is likely to spread if not checked at once. Some veterinary surgeons favour treatment by rubbing the affected part (after clipping the fur if necessary) with sulphur and oil, but others consider oily preparations unsatisfactory. On account of the difficulty of penetrating the fur powders are not satisfactory, nor do the animals tolerate being immersed in dips. This, however, seems to be the most efficacious method of dealing with sarcoptic mange, using a lime-sulphur wash, as is used for the same condition in dogs.

Follicular mange is not of frequent occurrence, and may be treated as in the dog. Parasitic canker, or ear mange, caused by *Otodectes cynotis*, is common and spreads rapidly among foxes, leading to much emaciation, poor fur, breeding disturbances, and even death. The condition is not difficult to treat, and recovery may be effected by dropping into the ear cavity a small quantity of glycerin containing 5 per cent. of phenol, or a mixture of ether 1 part, iodoform 10 parts, and olive oil 25 parts may be used. The drops may be inserted at intervals of three or four days on three or four occasions. The parasite *Otodectes cynotis* does not burrow into the skin but remains on the surface of the external ear, giving rise to severe inflammation, followed by the development of pus. When the pus

Silver Fox Farming



The silver fox industry, which began in this country in 1920, has made great progress and those engaged in the work are confident of its future.

The illustrations on this page show (top) a general view of a silver fox farm and (bottom) a branding outfit for establishing pedigree (Photos, British Fur Breeders' Association). In the centre are close-up views of cubs at Stack's Fox Farm, Detling, near Maidstone.

is present the mites may be absent because the pus usually kills them. Animals suffering from ear mange can be detected by the occasional shaking of the head, twitching of the ear, and attempts to scratch the ear with the hind foot. They may show a tendency to run in circles and sometimes convulsions may occur. As an alternative to the above ear drops vegetable oils containing carbon tetrachloride or petroleum ether may be used.

Like other domestic animals, the fox may harbour fleas in its fur, and these are most effectively dealt with by disinfection of the kennels, and thorough cleaning to destroy eggs and larvæ. Since it is inadvisable to dip foxes, pyrethrum, derris, or naphthalene are used, although they do not easily penetrate the fur. A powder containing 80 per cent. of pyrethrum and 20 per cent. of sodium fluoride, has been recommended.

Internal Parasites

Internal parasites are responsible for a good deal of ill-health in foxes, and, unless measures are taken to eradicate them, may become a source of serious loss to the fox farmer. The most common of the intestinal parasites is a roundworm, *belascaris marginata,* and it is usual in many fox farms to undertake routine treatment for worms in fox puppies from three to four weeks of age. Animals badly infested with worms have an unthrifty appearance, and are slow in growth, the abdomen is often distended, there may be diarrhœa, the fur is rough and dry and fits may occur. Various medicaments are used, among which are carbon tetrachloride in doses of 15 to 20 minims in a capsule for adult foxes, and tetrachlorethylene, which is considered less dangerous and more effective because one dose is sufficient to remove the majority of the common intestinal parasites. Oil of chenopodium has also been employed with castor oil, in the proportion of 1 of oil of chenopodium to 20 of castor oil in doses of 1 c.c. for each pound of body weight. The average dose of this mixture for fox puppies three to four weeks old is 0.75 c.c. Foxes may also be infested with various species of hookworms, and for these tetrachlorethylene is the most effective agent. It is usual to treat fox puppies for worms at three to four weeks of age and again six to eight weeks later. If sanitary conditions are not good, and the adults harbour hookworms, the pups should have a dose of tetrachlorethylene when they are four to five months old. It is best also to treat the adults when the young puppies are being treated, so as to prevent reinfestation, and indirectly to improve the mother's milk supply. It is at about eight to ten weeks that fox puppies begin to harbour hookworms. Various species of nematode worms inhabit the lungs and bronchial tracts of foxes, and if present in small numbers may not be harmful. In large numbers, however, they cause an excessive collection of mucus in the lower part of the respiratory tract, which causes wheezing or a rattling sound, interrupted by a hoarse cough. Medicines are usually of no value, although expectorants may aid in relieving the symptoms. Most adult parasites migrate from the lungs to the trachea, whence they may be removed by a small brush. Lungworms chiefly affect fox cubs between the ages of three months and one year. Young puppies and adults are less seldom affected. Their chief danger lies in the possibility of subsequent bacterial infection, producing pneumonia, septicæmia, etc. The eradication of lungworms is usually effected by placing the foxes in pens with a floor made of 1-in. wire mesh on frames 18 in. from the ground, so that reinfestation is impossible. For tapeworms, arecoline hydrobromide in doses of $\frac{1}{8}$ to $\frac{1}{4}$ grain has been said to be effective. Other diseases to which foxes bred in captivity are liable include tuberculosis and disorders due to improper feeding, such as rickets, which call for the addition of cod-liver oil and mineral salts to the diet.

Photo] [*British Fur Breeders' Association*

Tuberculosis in Cattle

Widespread interest has been aroused by the experiments carried out by Veterinary Surgeons of the Government of Northern Ireland with Mr. H. Spahlinger's Bovine Anti-tuberculosis Vaccine during the period 1931-1934.

A REPORT of the Spahlinger experiments in Northern Ireland has now been issued (H.M. Stationery Office; 1s. 6d.). It is clear that the Spahlinger dead vaccine has conferred on the vaccinated animals a very high degree of immunity to a lethal dose of the tubercle bacilli injected into the blood stream six months after vaccination, and at least an equally high degree of immunity to intense natural infection during a continuing period of approximately two years. The highly satisfactory nature of the results has raised the question of compulsory use of the vaccine as a means of eradicating bovine tuberculosis. Following the introduction, the report is divided into two sections (non-technical and technical), appendix (among other things, post-mortem reports, intradermal tuberculin tests and temperature graphs), addenda (vaccine, dosage and method of preparation of vaccine). Thirty-two animals were employed for the experiments, divided into six main groups as follows:—Group I—Six animals; Group II—Two animals; Group III—Eleven animals; Group IV—Two animals; Group V—Two animals; Group VI (Control Group)—Nine animals.

The following information was supplied to the Ministry by Mr. Spahlinger regarding the respective materials with which the animals of the various groups were injected.

Group I.—The vaccine used was described by him as "old" vaccine, which was prepared in 1926.

Group II.—"The vaccine used was," he said, "obtained from a strain grown on specific media (i.e., the serum or blood of cattle) and then cultivated for five or six years on potatoes, and again on specific media for four years with the object of seeing whether the prolonged final cultivation on specific media would restore its 'specificity,' that is to say, its complete efficacy as a vaccine which it possessed after its original cultivation on specific media, but which was impaired by its subsequent cultivation on potatoes." "The vaccine had," he said, "been tested against homologous strains with complete efficacy, that is 100 per cent. success, and his object was to see whether it would give immunity against heterogeneous normal strains."

Group III.—The vaccine with which this group was treated was Mr. Spahlinger's "new vaccine," which had been prepared in 1929.

Group IV.—"The material used was," Mr. Spahlinger said, "an extract of tuberculous lesions made in 1922, which was filtered, the object being to see whether it would immunise the animals inoculated with it against T.B. infection, or sensitise them, in which latter case they would die before the controls.

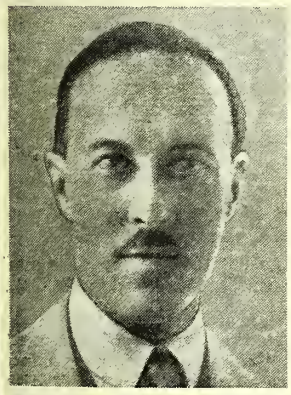
In previous tests it had affected the inoculated calves in such a way that they died before the control calves. He thought that it might with age have lost its sensitising properties." In view of this information this group might be considered as varying little from the conditions of the control group.

Group V.—" The material used was the media on which the cultures were grown. It was the specific culture medium which contained endo- and ecto-toxins which might or might not give immunity or hypersensitiveness according to dosage and frequency of vaccination, i.e., the number of injections and the amount of the material."

Mr. Spahlinger suggested that the immunity, etc., produced should be tested by giving the calves, both vaccinated and unvaccinated, an intravenous injection of virulent bovine tubercle bacilli isolated, grown and prepared in the Veterinary Research Laboratory of the Ministry, and that the dose should be of such strength as to bring about death in unvaccinated animals in a period of one to two months. This condition, although considered of a drastic nature, was agreed to, the opinion being held that if the vaccine would give even only a partial immunity in these circumstances it would probably confer a high degree of immunity against any form of natural infection. Two animals from the control group were employed for virulence tests, so that seven remained in it at the time of injection of the test dose.

Results

Of the seven animals in the control group five died in an average time of 43 days following the injection of the test dose. Post-mortem examination showed each animal to be affected with acute generalised tuberculosis. The two control animals which survived both experienced an acute febrile attack which lasted for about 30 days, following the injection of the test dose. Both animals recovered from this attack. Tuberculosis of a non-progressive nature was found on post-mortem examination of both animals, indicating that these two animals possessed a high degree of natural resistance.



Photo] [*Press Portrait Bureau*
MR. H. SPAHLINGER

In Group IV, which for certain reasons was considered along with the control group, there were two animals. One of these animals died in 34 days following the injection of the test dose, and post-mortem examination showed it to be affected with acute generalised tuberculosis. The other animal became acutely ill following the injection of the test dose and developed into a definite chronic case of tuberculosis. It was slaughtered 765 days after the administration of the test dose. Post-mortem examination showed it to be very severely affected with generalised and progressive tuberculosis.

There were eleven animals in Group III ("new" vaccine group). All resisted the injection of the test dose in a very similar manner. One animal later developed tuberculosis meningitis and died from a hypostatic pneumonia, 607 days after receiving the test dose. This animal was seriously affected with hoose and on post-mortem examination the lungs were found to be heavily infested with hoose worms. Another animal was found on post-mortem examination to have a tuberculous udder and fairly widely disseminated lesions of tuberculosis. It was in quite good condition when slaughtered, 870 days after the injection of the test dose. With these two exceptions, the carcases in the vaccinated group were considered to be fit for human consumption by the Belfast City Veterinarian, and his opinion was that the lesions present were of a non-progressive nature. Considering these facts it must be concluded that a high degree of resistance of immunity against a massive dose of tubercle bacilli injected intravenously was conferred on the vaccinated animals.

The vaccine proved most successful in Sub-Group IIIc These three animals were injected intramuscularly. This method of applying the "new" simplified vaccine deserves special consideration in future work. The vaccinated animals all responded very similarly to the injection of the test dose. They suffered a severe attack for two or three days, after which their temperatures dropped to, and remained, normal. The control animals showed considerable fluctuations in temperature as compared with the vaccinated animals and were recording high temperatures when those of the vaccinated animals had returned to normal.

During the course of the experiment, in addition to the intravenous injection of the massive test dose, all the surviving animals were subject to intensive natural infection through the presence amongst them of animals which were suffering from tuberculosis. Moreover, various types of parasitic infection, such as hoose worms, liver fluke and intestinal worms, were present, all of which would normally tend to lower the vitality of the animals and to this extent facilitate the spread of any progressive type of tuberculosis. It is considered that the injection of the "new" simplified dead vaccine prepared by Mr. H. Spahlinger conferred a high degree of resistance against a massive intravenous injection of tubercle bacilli. The intramuscular method of vaccination in this experiment has given the most satisfactory results.

Preparation of the Spahlinger Antigens

A piece of tuberculous material is excised in a sterile manner, from a lesion of one of the dead bovine cattle at a slaughterhouse. Tuberculous micro-organisms taken from this material are then inoculated, under sterile conditions, on specific media which will supply the micro-organisms with specific bovine biochemical material. The specific culture medium is prepared as follows:—

A bovine body fluid (defibrinated blood, serum, organ or tissue extract, etc.) is distributed in test tubes, made of Jena glass. These test tubes are thereafter placed, in a sloping position, in an incubator and the liquid is coagulated at about 65° C. When the tubes and their contents have become cold, there is spread on the coagulated surface of this solid medium a small quantity of normal (non-heated) bovine body fluid (defibrinated blood, serum, organ or tissue extract, etc.); the tubes are then placed in the same inclined position as they were in the incubator, so that the normal bovine fluid well covers the whole surface of the coagulated medium. The tubes are left forty-eight hours in this position, so that the normal bovine fluid can well impregnate the superficial layers of the coagulated medium. These specific media, inoculated with native bovine tubercle micro-organisms (i.e., unaltered by passages on artificial media or by passages through an animal species zoologically heterogeneous to bovine cattle), are placed in an incubator where they are kept in the dark at a temperature of 38.5° to 39° C. As soon as the culture has sufficiently grown, it is reinoculated on specific normal (unheated) bovine media, preferably liquid, consisting of normal defibrinated blood, serum, organ or tissue extract, etc., of bovine cattle, contained in Jena glass flasks. These cultures are then placed in a dark incubator and kept at a temperature of 38.5° to 39° C. When the cultures have sufficiently developed, the tubercle micro-organisms are collected, and made into an emulsion in a sterile manner, in the absence of oxygen, with distilled water or normal saline solution. The emulsion is thereafter distributed into ampoules, put away and kept in a cool, completely dark place until all the tubercle micro-organisms in the emulsion have died a natural death by the efflux of time. According to the nature of the emulsion (its concentration, state of division of the tubercle micro-organisms, etc.), it is necessary to keep the vaccine a considerable time—a year or even longer—before it can be used. It is then a harmless—though effective—material for preventive immunisation. The antigens thus prepared *in vitro* are identical with those elaborated by the tuberculosis micro-organisms *in vivo* in diseased bovine cattle, save that the former antigens, when ready for use, will not be part of a living micro-organism. Each batch of vaccine must be tested so as to be quite certain that the micro-organisms are indeed dead. Traces of antiseptics, formaldehyde for instance, may be added to the emulsion before sealing it in the ampoules, but every precaution must be taken to safeguard the strictest specificity of the antigenic elements. The vaccines thus prepared retain for years their specific antigenic and vaccinating properties. It is essential that, from the moment of the isolation of the tubercle micro-organisms and during all the subsequent processes, no reaction or manipulation should take place which might alter, even in a slight degree, chemically, physically or physiologically, the bacterial metabolism and the antigenic structure of the unmodified bovine tubercle micro-organisms.

On Rearing Budgerigars

By S. Chapman, Chemist and Druggist

CHEMISTS have not, as a rule, much time to spare for a hobby, but one that should attract, being profitable as well as fascinating, is the keeping and breeding of budgerigars. They require little attention beyond feeding and cleaning. These beautiful birds, commonly called love-birds, are natives of Australia, but are now bred in this country. They can be had in a variety of colours, the chief of which are green, blue and yellow. The first thing to do is to arrange for suitable accommodation. It is most advantageous to keep them in an open-air aviary, as they are essentially outdoor birds and thrive best in this state all the year round. At the same time, they can live indoors if roomy cages are provided. For breeding purposes birds of good stock should be purchased, preferably from a large aviary, where modern methods are employed, thus ensuring disease-free birds at the start. On being paired off, during the season (April to October), they soon begin to nest. Eggs are laid on alternate days in special nest boxes, and as a rule there are four or five eggs in a clutch, hatching out in about three weeks. There is nothing for the owner to do except to supply food and water ; the parent birds bring up their offspring quite well and need no outside help. As regards food, budgerigars require special seed augmented by vitamins in the form of greenstuff, lettuce, watercress, apple and carrot. Spinach is also very useful.

Diseases

Cod-liver oil mixed with the seed makes an ideal food for them when nesting. It not only ensures healthy, sturdy youngsters but prevents eggbinding. In well-kept aviaries diseases are practically non-existent, but occasionally one comes across cases of French moult, where young birds are afflicted with a loss of down or feathers. This is a disease similar to rickets. Sometimes the complaint is hereditary, in which case the bird is best destroyed, but in slight cases can be cured by isolating the bird and treating it with irradiated ergosterol solution or cod-liver oil and fresh green food. Another illness is enteritis. This can be cured in the early stages by dosing with bismuth carbonate. Fits, indigestion, nervous debility and paralysis are very frequent troubles, but easily corrected. Psittacosis is only found in imported birds, but being bred now in this country budgerigars are not affected. The Ministry of Health now restricts importation of parrots and birds of a similar type, and as a result there is an increasing demand for budgerigars, and good prices can be obtained for them.

Blow-fly on Sheep

SOME interesting tests which have been carried out by members of the Council for Scientific and Industrial Research at Canberra are recorded in the July issue of the "Agricultural Gazette of New South Wales." It is stated that a mixture of glycerin and boric acid possesses all the desirable properties of a satisfactory blow-fly dressing. This apparently is rubbed into the shorn area and a few minutes after application the unpleasant normal odour of the strike is changed and becomes much less unpleasant. The maggots are killed rather slowly. The glycero-boric dressing is made as follows: Add 3 lb. of boric acid to one gallon (13 lb.) of glycerin and make a paste. Heat until all the acid is dissolved. After cooling, the clear solution should be kept in well-corked bottles and used without dilution.

AN EFFECTIVE DISPLAY.—"A friend of the speaker's, who was a display manager, suggested to a chemist with whom he dealt and who was very old-fashioned in his methods, that he should enter for that competition. The chemist agreed. Previously his windows had been filled with bottles of coloured water, etc., without any attraction at all. The display manager put in a window and won one of the first prizes. Within two days of that display the chemist had sold out his entire stock of that tooth-paste, and had to wire to the manufacturers for further supplies."—The editor of "Display" at the Royal Society of Arts.

Physics of Tuberculosis

PROOF of the importance of the application of physics in the formation of tuberculous cavities in the lung is supplied by Dr. P. N. Coryllos in the Journal of the Franklin Institute for September, 1935 (Vol. 220, No. 3, p. 287). It is pointed out that the regulation of respiration and circulation is a marvel of precision and efficiency. An excess of carbon dioxide, undeterminable by the most sensitive electrometric methods, brings about an increase of respiratory movements and elimination of carbon dioxide.

The gateway to the solution of a vital problem of pulmonary tuberculosis is the fact that tubercle bacilli remain alive for years when encapsulated in a fibrous shell without giving rise to clinical phenomena. As long as they are screened from oxygen they are unable to develop, but when an acute infection breaks the shell they start to grow and the clinical symptoms reflect this resumption of activity.

The capricious and puzzling behaviour of tuberculous cavities is explained in simple manner on a physical basis. The cavity is a hole in the lung connected to the outside atmosphere by a small (bronchial) outlet. The (atmospheric) pressure inside the cavity is higher than that of the lung tissue, so that the shape of the cavity is spherical in radiographic films of the living patient, though irregular when collapsed in material examined during autopsy. Conditions are favourable for the development of tubercle bacilli, and this gives a real meaning to "open tuberculosis" as cases with great numbers of bacilli present in the sputum.

Obstruction of the bronchial outlet leads to absence of oxygen and arrest of the growth of tubercle bacilli and the hitherto puzzling disappearance from sputum finds a simple and clear explanation. The two outstanding surgical procedures (artificial pneumothorax and thoracoplasty) aim at the mechanical collapse of tuberculous lung, thus facilitating closure of the outlets. Thus the key to the treatment of tuberculous cavities is not to be found in their wall but in their outlets.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students" 'The Chemist and Druggist,' 28 Essex Street, London, W.C.2.,

QUALITATIVE ANALYSIS FOR JUNIOR STUDENTS

A MIXTURE of two salts will form the subject of the next exercise in qualitative analysis. The mixture may contain metallic and inorganic acidic radicals occurring in the British Pharmacopœia. It is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture. Special credit will be given for detailed reports upon the observations made in the preliminary examination.

Students' applications for portions of the mixture of salts (accompanied by a *stamped and addressed envelope,* not a stamp merely) will be received up to Tuesday, October 15, on which day the samples will be posted. Students' reports will be received up to Saturday, October 26. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

SPECIAL NOTICE.—The prizes in this analysis will be awarded only to apprentices or assistants (not former tournament prize-winners) who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, and who have not passed in Chemistry in the Preliminary Scientific examination in Great Britain, in the Licence examination in the Irish Free State, or in Chemistry Part I, in Northern Ireland, *which facts must be attested on their reports.*

*** The Analytical Tournament for the coming Winter Session opens in November, and the usual intimation will appear in our first issue for that month. Students who intend to take part in the competition are recommended to apply for and to examine samples of the powder mentioned above, and to submit reports on their examination.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, October 10

BUSINESS generally has been on an increasing scale during the past week, and those articles which are drawn from overseas have, in many instances, been particularly active. The general tone is certainly brighter and stronger. The sharp revival of business is no doubt due to anxiety as to the future on account of the present crisis in international affairs. To this extent the better business may be artificial, yet it should be noted that the majority of the primary markets, metals, oils, cereals, rubber and even shellac and pepper, are all moving up. This is the first time for some years that these leading commodity markets have made a general advance; it is significant and cannot be ignored. Business in PHARMACEUTICAL CHEMICALS has been rather better. BISMUTH SALTS have been advanced with the rise in the metal.

Crude Drugs

Business on a good scale in a wide range of products is reported. Due to the low level of spot stocks, the demand for some products cannot be fully satisfied. With such conditions sharp advances were to be expected, but hardly to the extent of some of the movements that have taken place this week. AGAR continues in active demand and is again dearer. A famine in Curaçao ALOES has to be recorded; no shipment offers. ANTIMONY is sharply dearer. Good sales of BUCHU on spot and the few remaining bales are dearer and firmly held. Japan reports heavy sales of CAMPHOR and their shipment offers are dearer. Recent sales of CARDAMOMS have practically cleared stocks; higher prices are now quoted. DESICCATED COCONUT is sharply dearer. There has been something of a scramble for isolated lots of Spanish or Portuguese ERGOT offered for shipment at steadily increasing prices; at the moment nothing more offering. A few bags of Russian at high figures constitutes spot supplies. West African GINGER has moved to higher figures. As recently forecasted, Sudan GUM ACACIA has advanced and is very likely to go still higher, due to better demand and definite shortage of supplies up to the end of November. Matto Grosso IPECACUANHA has sold well on spot, and there is now extremely little of B.P. test available, for which much higher prices are asked; shipment is also dearer and offerings are small. An active demand for MENTHOL continues; the market here is quoted dearer and Japanese shippers' prices are firm at a further advance. Spanish-Italian MERCURY has again advanced for shipment; business active for all destinations. PEPPERS show a recovery and the market is steadier. PIMENTO is quoted dearer on a firm market. Rubber has improved on the week. Practically all SEEDS markets are active and dearer.

Essential Oils

These markets have attracted more business and some products are tending dearer; the general tone is better. There has been a rush to pick up spot BERGAMOT; the shipment market is firmer and orders for immediate despatch are said to have been substantial. Brazilian BOIS DE ROSE, a controlled product, is easier forward. African CEDARWOOD has sold well at keen prices. Java CITRONELLA is dearer for shipment. Sicilian hand-pressed LEMON has been fairly active; spot and shipment quoted dearer and firm. LEMONGRASS has been recovering, and may go still higher. Japanese PEPPERMINT continues in active demand, and there is very little offering now on spot and near afloat; higher prices are quoted for all positions, market firm. In other commodities it should be noted that RED and WHITE LEAD have been advanced a further £2 per ton.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	October 10	Value of the £
Amsterdam ...	Fl. to £	12·107	7·25½	12/0
Berlin	Mks. to £	20·43	12·19	11/11½
Brussels	Belgas to £	nominal	29·07	16/7¼
Copenhagen ...	Kr. to £	18·159	22·40	24/8
Lisbon	Esc. to £	110	109¾	19/11¾
Madrid	Ptas. to £	25·22½	35 15/16	28/4
Milan	Lire to £	92·46	60 3/16	12/11½
Montreal	Dol. to £	4·86¾	4·97	20/5
New York	Dol. to £	nominal	4·91	20/2
Oslo	Kr. to £	18·159	19·90½	21/11
Paris	Fr. to £	124·21	74½	12/0
Prague	Kr. to £	164·25	118⅛	12/0
Stockholm	Kr. to £	18·159	19·39½	21/4
Warsaw	Zloty to £	43·38	26	11/11¾
Zurich	Fr. to £	25·2115	15·05	11/11¾

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

GENERAL business has been on a fair scale, and some products, such as salicylates, have met with an increasing demand. Values are, with very few exceptions, fully steady. Bismuth salts have been advanced on the rise in metal. Mercurials are firm, tending to advance, Iodides and bromides are steady.

ACETANILIDE.—Market steady, business quiet: B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

AMIDOPYRIN.—Dealers report fair spot inquiry continues; occasional cheaper quotations: crystals, five cwt., 18s. 0¾d.; two cwt., 18s. 5¼d.; less than two cwt., 18s. 10½d. per lb., with powder 2½d. per lb. extra.

BENZOIC ACID (B.P.).—Values maintained, business about average: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—With the rise in metal of 6d. per lb., makers' scales of prices for the salts have been advanced, as follows:—

—	Net Monthly Account	Net 14 days (a)		
	Under 8 lbs.	8 lbs. and under 28 lbs.	28 lbs. and under 1 cwt.	Not less than 1 cwt. (b)
	Per lb. s. d.	Per lb. s. d.	Per lb. s. d.	Per lb. s. d.
Carbonate	8 6	7 3	6 9	6 6
Citrate	11 8	10 5	9 11	9 8
Nitrate Cryst.	6 7	5 4	4 10	4 7
Oxide	12 8	11 5	10 11	10 8
Salicylate	9 11	8 8	8 2	7 11
Subchloride	12 5	11 2	10 8	10 5
Subgallate	9 7	8 4	7 10	7 7
Subnitrate	7 8	6 5	5 11	5 8

(a) If sold on monthly account, 3d. per lb. extra charged. (b) A rebate of 3d. per lb. allowed on sales of not less than 2 cwt. (either for prompt delivery or on contract) provided delivery is completed or paid for within three months. Liquor bismuthi B.P., one w-qt., 1s. 1½d. per lb.; six w-qts., 11d.; 12 w-qts., 9½d.; 36 w-qts., 9d. per lb. The new scale came into operation on October 8. The previous alteration in prices was on July 17, 1935.

CHLORAL HYDRATE.—Makers' scale of prices is fully maintained: duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 1d.; one cwt., 3s. 2d.; 28 lb., 3s. 3d.; 14 lb., 3s. 4½d. per lb.; 28-lb. jars, one penny per lb extra.

CITRIC ACID (B.P. CRYSTALS).—The market is quoted at the advance recorded last week: British material quoted at 1s. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

CREAM OF TARTAR.—Business on a limited scale is reported: British material, 99 to 100 per cent., 79s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

CREOSOTE (B.P.).—Spot business has been slow: bulk quantities, in 25-kilo. demijohns, 1s. 9½d. to 1s. 10d. per lb.; smaller parcels, 1s. 10½d. to 2s. 3d. per lb., ex store.

MERCURIALS.—Makers' scales of prices for these salts are very steady: Chloride, B.P., one cwt., 4s. 9d.; smaller quantities, from 4s. 10d. per lb.; metal values firm and tending to advance.

METHYL SALICYLATE.—Quite a fair business with values maintained: spot, ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 7d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Dealers report more inquiry, market steady: two cwt., 19s. 9¾d.; one cwt., 19s. 9¼d.; 56 lb., 20s. 2¾d.; small parcels, 20s. 8d. per lb.

PARALDEHYDE.—The scale of prices is steady: 1 w-quart, 1s. 9d.; 6 w-quarts, 1s. 7½d.; 12 w-quarts, 1s. 5¼d.; 36 w-quarts, 1s. 4½d. per lb., carriage paid on minimum 6 w-quarts; one demijohn, 1s. 2d. per lb., carriage paid.

PHENACETIN.—A limited business in small lots, values still on a low level: crystals or powder, bulk quantities, 2s. 7d. to 2s. 8½d.; smaller parcels, 2s. 9d. to 3s. per lb.

PHENAZONE.—Occasional slightly cheaper offer; inquiry is limited: crystals, five cwt., 8s. 9¾d.; two cwt., 9s. 0½d.; and less, 9s. 3d. per lb., with powder 2½d. per lb. extra.

QUININE SALTS.—Convention scales of prices continue steady; business about normal: sulphate, 2s. 1d.; bisulphate, 2s. 1d.; ethyl carbonate, 2s. 8¾d.; salicylate, 2s. 9½d.; hydrochlor., 2s. 7½d.; bihydrochloride, 2s. 10¾d.; hydrobromide, 2s. 7½d.; bihydrobromide, 2s. 10¾d.; valerianate, 3s. 7d.; hypophosphite, 3s. 10¾d.; alkaloid, 2s. 11d. per oz., carriage paid on bulk quantities; 100-oz. tins free; smaller packing extra. For shipment business the war risks rate of insurance is for buyer's account.

SACCHARIN.—The Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—More inquiry and values are about steady: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 11d.; 4 lb., 2s. per lb.

SALOL.—Business is slow, market quoted unchanged: spot, crystals, two cwt., 3s. 6d.; one cwt., 3s. 6½d.; 56 lb., 3s. 7¼d.; smaller parcels, up to 4s. per lb.; powder, 2¾d. per lb. extra.

SANTONIN.—Second-hand parcels are limited in quantity. Not less than 50 kilos., £35 12s. 6d.; not less than 25 kilos., £36 1s.; less than 10 kilos., £36 9s.; not less than 3 kilos., £36 17s.; not less than 1 kilo., £38 13s. 6d.; less than 1 kilo., £39 13s. 6d. Special prices are in operation for export to all markets.

SODIUM BENZOATE (B.P.).—Average demand on a competitive market: one cwt., 1s. 7d.; smaller parcels, 1s. 8d. to 1s. 10d. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Keeping fairly steady, business rather better: spot, one cwt., 15s. 9d.; 28 lb., 16s.; 14 lb., 16s. 3d.; 7 lb., 16s. 6d.; smaller parcels, up to 17s. per lb.

SODIUM SALICYLATE (B.P.).—A fair business is being done, with makers' and dealers' prices about steady: home trade crystals or powder, five cwt., 1s. 8½d.; one cwt., 1s. 9d.; 28 lb., 2s.; 14 lb., 2s. 2d.; 7 lb., 2s. 3d.; 1 lb., 2s. 6d. per lb.

SULPHONAL.—A modest business on spot, values well maintained: crystals or powder, two cwt., 15s. 5¼d.; one cwt., 15s. 10¾d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 7½d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—The market is quoted steadily at the reduction notified last week: British makers quote at 1s. per lb., less 5 per cent. discount. Dealers offering foreign material at competitive prices.

Crude Drugs, etc.

ACONITE ROOT.—Rather more inquiry: Napellus, 65s.; Japanese, 45s. per cwt. for small parcels.

AGAR.—Sustained demand on spot and for goods afloat and prices are very firm with supplies now very limited. Shipment is slightly dearer again and firm: spot, Kobe No. 1, 3s. 4½d. to 3s. 6d.; No. 2, 3s. 2d. to 3s. 3d.; Yokohama No. 1, 3s. 2d. per lb.; shipment, Kobe No. 1, 3s., and in demand; No. 2, 2s. 9d.; Yokohama No. 1, 2s. 8½d. per lb., c.i.f. New crop, February-March shipment, Kobe No. 1, 2s. 3d.; No. 2, 2s. 2d.; Yokohama No. 1, 2s. 1½d. per lb., c.i.f.

ALOES.—Continued inquiry at the source for shipment offers of Curaçao have failed to bring any firm offers; bids at good figures have also been ignored. Cape is keeping fully steady with some business passing: Cape, spot, 50s. for prime in boxes; shipment, boxes, 45s.; cases, 50s. per cwt., c.i.f.; Curaçao, spot, 97s. 6d. to 110s., with only a few boxes left; shipment, nominal per cwt., c.i.f.

ANTIMONY.—A further advance in Chinese crude is recorded at £34, c.i.f. English regulus is also dearer at £79 to £80, spot.

BALSAMS.—Business has not amounted to much here: *Tolu*, 1s. 5½d. to 1s. 6d.; *Canada*, 2s. 10d.; *Peru*, 5s. 3d. per lb., spot., for small parcels..

BARBASCO ROOT.—Spot supplies are available at former rates, but the market is neglected.

BELLADONNA.—Rather more inquiry: leaves, 65s.; root, 57s. 6d. per cwt., spot, for small parcels.

BISMUTH METAL.—The price has been advanced sixpence to 4s. per lb., as from October 8, 1935.

BUCHU.—Very firm conditions rule the spot market. During the week some good sales have been made, and the remaining stocks are exceedingly small. Rounds are now up to 1s. 4½d. to 1s. 5d. and even higher prices are confidently expected. Ovals, nothing offering, value nominal.

BURDOCK ROOT.—Dealers continue to do small spot business with the quoted price about 45s. per cwt.

CAMPHOR.—Cables from Japan indicate heavy sales and prices have advanced, market closing firm; spot stocks are limited but so far values have not been advanced: on spot, tablets, 2s. 5d.; powder, 2s. 2d.; slabs, 2s. 1½d. per lb.; shipment tablets, 2s. 2¾d.; powder, 2s. 0¼d.; slabs, 1s. 11¾d. per lb., c.i.f. English refined is still unchanged: flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz, 3s. 5d.; ½ oz., ⅓ oz. and ¼ oz., 3s. 6d. per lb.; special prices for contracts for quantities.

CANTHARIDES.—Rather more business for small spot parcels: Russian, about 6s. 9d.; Chinese, about 2s. 6d. per lb., as to quantity, spot.

CARDAMOMS.—Substantial business has been done and supplies are now down to a very low level. Best bold pale, 3s. 6d. to 4s.; medium bold, 2s. 10d. to 3s.; small to medium, 2s. 4d. to 2s. 6d. per lb.

CASCARA SAGRADA.—The shipment price is steadily held at 39s. per cwt., c.i.f., with offerings restricted: on spot, 1934 peel is available at 41s. to 42s.; 1933 peel at 47s. 6d. and 1932 peel at 52s. 6d. per cwt.

CHAMOMILES.—There is a firmer tone in this market, business continues on a fair scale: new crop flowers, from 120s. to 140s. per cwt., as to quality. Some off-colour at cheaper prices.

CLOVES.—Market has been mostly dull with values barely maintained on the week: Zanzibar, spot, 7d.; shipment, October-December, 6⅜d. per lb., c.i.f. Madagascar, in bond, 6d.; shipment, October-December, 5¾d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended October 5 were 10, and the deliveries 54, leaving a stock of 2,934. From January 1 to date the landings of Zanzibar have been 2,960 and the deliveries 3,120. Landings of Madagascar for the week ended October 5 were *nil*, and the deliveries 133, leaving a stock of 1,302. From January 1 to date landings of Madagascar have been 3,232 and the deliveries 2,164 packages.

COCOA BUTTER.—Fair business, market steady: prime English, 8¾d. to 9¼d. per lb. Foreign, 8½d. to 9d. per lb., as to quantity.

COCONUT (DESICCATED).—Market is sharply dearer and closes firm: spot, fine, 24s. 6d.; medium, 24s. 6d. per cwt.; shipment, halves, October-November, 23s. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market for finest Lofoten steam refined non-freezing medicinal oil is, owing to the political situation, nominally unchanged at 91s. per barrel, c.i.f. Producers are not anxious to quote, preferring to wait in the hope of better conditions in due course: spot, in small lots, 132s. 6d. per barrel, ex store, duty paid; Newfoundland, non-freezing medicinal oil, 130s. per barrel, ex store; British non-freezing medicinal oil is now quoted at 110s. to 112s. 6d. per barrel, c.i.f., London, duty free, while quotations from another home source are at higher figures.

COLCHICUM.—Occasional small spot business reported with root about 40s. per cwt., and seed about 11d. per lb.

COLOCYNTH.—The extremely small supplies of pulp on spot are firmly held for about 2s. 2d. per lb.

ERGOT.—There has been a sharp recovery from the recent temporary setback in values. In Russian a very few bags are available at the moment on spot, and firmly held for 3s. 6d. Inquiry for Spanish and Portuguese for shipment has been active and anything offered has been quickly snapped up. There were first buyers at 4s. 3d., and later 4s. 6d. was paid, and, on Thursday, it is reported that 5s. 3d., c.i.f., has been paid for Portuguese. The source seems to have practically nothing to offer. Home inquiry is good, and this market is also receiving inquiry from America, but cannot get supplies.

GENTIAN.—Business has been better this week. Dealers quoting French on spot at about 35s. 6d. per cwt.

GINGER.—Values show a further sharp advance, market closing steady: West African, spot, 41s.; shipment, October-December, 35s. 6d.; new crop, February-April, 35s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 95s. to 100s.; small grinding, 70s. to 72s. 6d. per cwt., in bags, ex store.

GUM ACACIA.—Business has been good on spot, with most of the old parcels cleared. Inquiry for shipment has been active. Higher prices are being quoted, with spot and forward firm with a definite tendency to go dearer: spot, Kordofan cleaned sorts, firm at 52s. 6d.; bleached, No. 1, 90s. to 92s. 6d.; extra, 100s. to 102s. 6d. per cwt.; shipment, Kordofan cleaned sorts, 50s. per cwt., c.i.f., and very firm.

HENBANE.—Dealers are offering new crop at about 80s. per cwt. for small parcels.

HENNA.—Inquiry has been fair, market steady. Indian, 32s. 6d.; Egyptian, 32s. 6d. per cwt, spot.

HONEY.—Business has continued on a very fair scale and the tone is fully steady. Jamaican 32s. to 48s., as to quality. Mexican, amber, about 37s. 6d., duty paid. Cuban, pale amber, 37s. 6d. per cwt.

HYDRASTIS.—Not much interest in this article. Spot, 7s. 9d. to 7s. 10d.; shipment, 7s. 6d. per lb., c.i.f.

IPECACUANHA.—The spot and shipment markets are dearer and firm. On spot, B.P. Matto Grosso has sold well and supplies are now extremely small and firmly held. The shipment offers are very restricted and sharply dearer. On spot some material not quite up to B.P. test is offering at 5s. to 5s. 1½d. Matto Grosso, B.P. test, 5s. 6d. per cwt.; shipment, 4s. 10½d. per lb., c.i.f., if available.

LIQUORICE ROOT.—There has been a much better inquiry for natural root on spot, with the quotation £12 per ton.

MANNA.—Spot supplies of selected flake in 1-lb. tins are quoted at about 4s. 3d. per lb.

MENTHOL.—The demand for home trade and for the Continent has again been good. The market for all positions continues firm at the further advance. On spot business in K/S brands done up to 14s., with 14s. 1½d. now asked; in bond, 12s. 9d.; shipment, October, 12s. 6d.; October-December, 12s. 4½d. per lb., c.i.f. sellers. Japanese shippers' quotations are firm and dearer. October-November, 13s.; October-December, 12s. 10½d. per lb., c.i.f.

MERCURY.—The Italian-Spanish group report their shipment quotation has been advanced ; business continues very substantial for all destinations ; quoted at 58 dollars per bottle, f.o.b. Continent ; spot, in small lots, £12 1s. 6d. per bottle, ex store.

OPIUM.—The demand has been increasing for small lots: spot, 1s. 5d. to 1s. 5½d. per unit, landed and duty paid.

ORRIS ROOT.—Supplies of Florentine old crop on spot are quoted at 37s. 6d. per cwt., for small parcels.

PEPPER.—With quoted values at a further slight improvement the market is steady. Lampong, 3⅜d. in bond ; shipment November-December, 3½d.; January-March, 3 5/16d., c.i.f. Tellicherry, spot, 5d.; shipment, October-November, 44s., c.i.f. Aleppy, spot, 4¾d.; shipment, October-November, 43s., c.i.f. White Muntok, spot, 6d.; in bond, 5¾d.; shipment, November-December, 5⅜d. per lb.

PIMENTO.—Values have again advanced, market fully steady. Spot, 4¼d.; shipment, October-November, 35s. per cwt., c.i.f.

RUBBER.—Values on the week show a substantial recovery. Following a period of very fair business, the market closed quieter and steady. Standard ribbed smoked sheet spot, 5 15/16d.; October, 5 15/16d.; November, 6d.; December, 6 1/16d.; January-March, 6⅛d.; April-June, 6¼d.; July-September, 6⅜d. per lb.

QUILLAIA BARK.—Dealers are quoting small spot lots at about 30s.; shipment, 24s. per cwt., c.i.f.

RHUBARB.—Routine business on spot, with values quite steady. Shensi, medium round, 3s. 9d. to 4s.; Canton, 2s. 3d.; rough round, 1s. 3d. to 1s. 4d. per lb., as to quality.

SAFFRON.—Market is steady, with a little more business passing: spot, 1898, prime, 38s. 6d.; extra, 36s. 6d.; super, 35s. 6d. per lb., and less for bulk quantities.

SARSAPARILLA.—Business has been on the quiet side: spot, Jamaican grey, 1s. 4½d. to 1s. 5d.; native, mixed colours, 10½d. to 1s. per lb., as to quantity, spot.

SEEDS.—ANISE.—Spot, duty paid, Spanish, 70s.; Bulgarian, 32s. CANARY.—Market very strong and fancy prices now quoted. Mazagan has jumped 7s. per cwt. to 38s. Tangier, 39s. 6d. Spanish, 45s. to 50s. CARAWAY.—Market dearer. Dutch, on spot, 40s., duty paid. 36s. quoted f.o.b. Holland. CORIANDER.—Market remains about the same. Morocco, on spot, 18s. to 18s. 6d., duty paid. The shipment price for new crop is 15s. 9d., c.i.f. CUMIN.—Malta, spot, 45s. Morocco is in very small demand at 48s., duty paid, and 43s., in bond. FENUGREEK.—Morocco, 14s., spot, duty paid. MUSTARD.—English, 24s. 6d. to 32s. 6d. per cwt., according to quality.

SENEGA.—This market has attracted but small attention. Spot, about 1s. 4d., with shipment offers at about 1s. 3½d. per lb., c.i.f.

SENNA.—The market has received rather more inquiry this week, with sellers more reserved for Alexandrian varieties. Inquiry for Tinnevelly leaves has been better, with prices holding firm. Good green new crop available on spot as follows: No. 1, 6d. to 6¼d.; No. 2, 4d. to 4¼d.; No. 3, 3d. to 3¼d. per lb. Supplies of old crop offer at slightly cheaper rates. Best quality hand-picked Alexandrian pods remain scarce, and No. 2 grade in fair demand at slightly firmer prices from 1s. 6d. to 3s. per lb.

SHELLAC.—Values have advanced, market closing steady: spot, standard TN orange, 58s. to 62s.; fine orange, 90s. to 150s.; pure bottom, 85s. to 95s. per cwt., spot. For delivery, TN, October, 57s. 6d.; December, 58s. 6d. For arrival, TN, October-November, 57s. per cwt., c.i.f.

SQUILL.—Limited supplies of good white are available on spot at about 27s. 6d. per cwt.

STRAMONIUM.—Some good quality leaves are quoted on spot at about 40s. per cwt.

TONQUIN BEANS.—Rather more business with the limited spot stocks of Para fair frosted beans firm at 2s. 10½d. (business done) up to 3s. per lb.

TRAGACANTH.—Continued inquiry for the medium white grades which are in very restricted supply and firmly held for £18 to £22 per cwt. Textile grades have received a little attention with prices ranging from 70s. to 87s. 6d. per cwt. Landed during September, 194 packages, delivered, ex warehouse, 610 packages. London stocks at September 30, 6,084 packages.

VALERIAN ROOT.—Dealers are now asking up to 65s. per cwt. for spot. Business remains quiet.

WAX.—BEES'.—Market is steady and a very fair inquiry is being dealt with. Abyssinian, spot, dearer, 110s.; shipment, 100s., c.i.f. Benguella, spot, 110s.; shipment, 98s., c.i.f. Conakry, spot, 110s.; shipment, 100s., c.i.f. Dar-es-Salaam, spot, dearer at 110s.; shipment, 105s., c.i.f. CARNAUBA.—Inquiry has been on a very fair scale this week, and values are keeping quite steady. Chalky grey, spot, 175s.; shipment, old crop, October-November, 170s., c.i.f. Fatty grey, spot scarce: old crop, 175s. Primeira, yellow is short an spot and quoted at 220s.; afloat is scarce at 220s. Mediana, spot, 210s. per cwt. New crop shipment prices are as follows: fatty grey, October-December, 155s.; November-December, 152s. 6d.; January-February, 150s. Chalky grey, December-January, 147s. 6d. Primeira, December-January, 190s. Mediana, December-January, 180s. per cwt., c.i.f.

Essential Oils, etc.

GENERAL business has been on a very fair scale, and the tone is stronger ; some products have experienced increased demand. Bergamot has been in active demand and is firmer. Java citronella is dearer for shipment. Sicilian hand-pressed lemon is firmer with good inquiry. Lemongrass is firmer forward. Japanese peppermint is firm on an active market.

ALMOND.—Average small business, market steady: English made, cwt. lots, 2s. 6d.; smaller parcels, up to 2s. 8d. per lb.; foreign, cwt. lots, 2s. 4d.; smaller parcels, up to 2s. 7d. per lb.; French bitter, 8s. 9d. per lb.

ANISE (STAR).—Moderate spot inquiry, with values unchanged; shipment continues steady but rather dull: spot, leads, 2s. 1½d.; tins, 1s. 11½d. to 2s.; drums, 1s. 11d. per lb., ex store ; shipment, leads, 1s. 10d.; tins, 1s. 7½d.; drums, 1s. 7d. per lb., c.i.f.

BAY.—Values are steady with business on spot rather slow: 49 to 50 per cent., 5s. 1½d. to 5s. 4½d. per lb., as to quantity.

BERGAMOT.—There has been widespread interest in this article during the week, with dealers and consumers ready to pick up anything that was offering at attractive figures on spot. There has also been substantial inquiry in the shipment market and a good number of orders have been cabled to the source for immediate shipment. The market is certainly firmer and some spot holders are restricting their sales for the moment, pending developments in the international political position. It is realised that should the sanctions be put into operation no further supplies are likely to be forthcoming for this market. At the moment consuming orders are being taken at about 6s. 3d. to 6s. 6d. per lb., with bids of 6s. refused for good oil. In the shipment market, one or two orders were put through early on at about 5s. 11d., c.i.f., but since then prices have advanced and are now firm at 6s. 2d. to 6s. 3d. per lb., c.i.f., with further advance anticipated.

BOIS DE ROSE.—A sharp decline in the shipment market, which we commented on last week, has taken place, and the price is now not more than 5s. per lb., c.i.f., for Brazilian. The spot price would not be more than 5s. 6d. per lb., and business seems to have been poor since the break.

CAJUPUT.—Routine business reported with quotations unchanged: B.P., 1s. 10½d. to 2s. 1d. per lb.

CANANGA.—There seems to be very small interest in this market. Singapore oil is offering on spot without much success at about 13s. per lb.; shipment, about 10s. per lb., c.i.f., for quantities.

CARAWAY.—This market is steady and a limited amount of business is reported: Dutch rectified, 9s. 6d.; crude, 9s. per lb., landed and duty paid.

CASSIA.—There is practically nothing offering on spot. One lot not of good quality is available. A parcel to arrive shortly quoted from 4s., landed and shipment, October-November, is steady at 3s. 9d. per lb., c.i.f.

CEDARWOOD.—A very fair volume of business is reported, mostly in the African oil, which, for bulk quantities, is quoted very keenly. Spot, American and African oils, 1s. 1½d. to 1s. 2d. for drums, with smaller parcels, up to 1s. 4½d. per lb.

CINNAMON LEAF.—A limited business with the shipment market for Ceylon oil fully steady: spot, 2s. 6d. for drums and smaller packings up to 2s. 9d. per lb.; shipment, from 2s. 3d. upwards per lb., c.i.f.

CITRONELLA.—There has been no movement in the Ceylon product, which remains at very low figures and in poor demand. The Java oil has advanced sharply for shipment: Ceylon, spot, drums, about 1s.; smaller parcels, 1s. 1½d. to 1s. 4d.; shipment, drums, not more than 10d. per lb., c.i.f. Java, spot, drums, 1s. 3d. to 1s. 3½d.; smaller parcels, up to 1s. 6d.; shipment, drums, 1s. 1½d. per lb., c.i.f.

CLOVE.—Market steady but the demand for Madagascar oil is limited: Madagascar, spot, drums, 3s. 1½d. to 3s. 2d.; smaller packings, up to 3s. 6d. per lb.; shipment, 2s. 7d. per lb., c.i.f. English, 90 per cent., 3s. 8d. per lb., in cwt. lots.

EUCALYPTUS.—The advance in shipment and spot values recorded last week is well maintained, business has been moving on a fair scale: Australian, 70 to 75 per cent., 11½d. to 1s.; 80 to 85 per cent., 1s. 0½d. to 1s. 1d. per lb., landed ; higher prices for small lots on spot. Spanish, 70 to 75 per cent., 1s. 2d. per lb., ex store.

GERANIUM.—This market has remained very dull and values are nominally unchanged: Bourbon, spot, 19s. 6d. to 22s.; shipment, 20s. 6d., c.i.f.; Algerian, spot, 21s. to 23s.; shipment, 19s. 6d. per lb., c.i.f. Spot values as to quality.

GINGERGRASS.—Business mostly in small spot parcels: spot, 5s. 4d. to 5s. 6d.; shipment, 4s. 4d. per lb., c.i.f.

HO (SHIU).—Dealers report a continued demand with prices steady at about 1s. 8d. to 2s. 1½d. per lb., as to quantity and quality.

JUNIPER BERRY.—Rather easier conditions are recorded here, with spot offers now at about 3s. for a standard quality oil. The market is quiet.

LAVENDER.—Lack of interest in the quotations for new crop oil is the only feature to comment upon. Shippers' prices have tended to be a shade easier. With business of any importance the market

would no doubt recover its former firm tone. Genuine Mt. Blanc, 38 to 40 per cent., 27s. 6d. per lb., landed. Other oils of good standard quality range from 33s. 6d. for 50 to 52 per cent. esters down to 19s. 6d. for 30 to 32 per cent. Lavandin is also very firm, with first quality from 16s. to 18s. and second quality from 14s. 6d. to 15s. 9d. per lb.

LEMON.—A move to firmer conditions and slightly higher values in the shipment market for Sicilian hand-pressed oil, similar to that reported in Bergamot has taken place. There has been a fair inquiry on spot for anything available at attractive figures, and the shipment market has been active on inquiry but not much business seems to have been negotiated so far. On spot, 6s. to 6s. 4½d.; shipment, from 6s. 1½d. to 6s. 3d. per lb., c.i.f., as to brand and quantity. Californian is steady but has been rather quiet: spot, large drums, 3s. 0½d.; small drums, 3s. 1d. per lb. Values tend to advance.

LEMONGRASS.—There has been more business in the shipment market; quotations are now close up to 2s. 1d., c.i.f., and are advancing with each order sent out. Spot is dull and quoted at about 2s. 5d. per lb.

NEROLI.—Quotations for new crop continue at about 13s. 6d. to 18s. 9d. per oz., landed and duty paid, as to quality, but there is very little inquiry.

NUTMEG.—A steady average business, with American and English oils at 5s. 1d. to 5s. 4½d. per lb., as to quantity.

ORANGE.—The French Guinea product continues to move slowly on spot in limited quantities: drums, about 3s., and smaller packings up to 3s. 4½d. per lb. Sicilian sweet, spot, 10s. 6d., and shipment, about 10s. per lb., c.i.f., nominal. Sicilian bitter oil is quoted on the spot at 10s. 9d. per lb. Californian meets with a modest demand: spot, one case, 2s. 6½d.; two or more cases, 2s. 4d.; drums, 2s. 3d. per lb. Definite tendency for prices to advance.

PALMAROSA.—This market continues dull and rather unsteady as quoted: spot, 6s. 3d.; shipment, 5s. 9d. per lb., c.i.f.

PATCHOULI.—Some Singapore oil is stated to be available on spot down to 10s. per lb., but the demand is very poor; shipment remains in the region of 11s. per lb., c.i.f. Shipment offers of Seychelles oil continue at about 6s. 6d. per lb., c.i.f.

PEPPERMINT.—The demand for home trade is well sustained, and spot and near afloat supplies are now difficult to locate and are firmly held. After business on spot at 5s. 6d. holders are asking up to 5s. 9d. A parcel due at the end of the month is mentioned at 5s. 4½d., landed; shipment, October-December, firm at 5s., at which price a considerable business has been done. Japanese shippers are very firm and quoting October-December at 5s. 4d., c.i.f. Some speculative business is reported in the January-March position at 4s. 11d. per lb., c.i.f. The American natural oil is reported to be steadier for shipment and a moderate amount of business has been done. Prices are over a wide margin and depend on brand of oil and menthol content. The price asked for a good brand, 50 per cent. menthol content, is 2 dollars to 2 dollars 5 cents per lb., c.i.f., in drums; oil of lower menthol content is anything down to about 1 dollar 75 cents per lb., c.i.f. These oils are round about 40 per cent. menthol.

SANDALWOOD.—Genuine East Indian Mysore, 19s. per lb., in one-case lots, on spot; market is rather unsteady, with cheaper offers in some quarters, particularly for good quantities. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, cwt. lots, 6s. 9d.; 56 lb., 6s. 10½d.; 14 lb., 7s. per lb. Australian, case lots, 15s. 3d. per lb.

SASSAFRAS.—A little better inquiry with natural oil about 4s. to 4s. 2d. per lb. Artificial oil at cheaper prices.

SPEARMINT.—Prices quoted are rather irregular, business unimportant: spot, from 8s. to 8s. 3d.; shipment, 7s. 4½d. to 7s. 6d. per lb., c.i.f.

SPIKE.—Values in this market tend to be rather firmer: new crop Spanish is well maintained at 4s. 7½d. to 4s. 8d. per lb., landed, for fair quantities.

WINTERGREEN.—Business has been negligible: spot, about 6s. per lb. for small parcels.

WORMSEED.—This market continues steady with business rather quiet: spot, 8s. 9d.; shipment, 8s. 3d. per lb., c.i.f.

The following are current prices for synthetics, etc.—ACETOPHENONE, 6s. to 6s. 4d. per lb.; AMYL ACETATE, pure, 122s. 6d. per cwt.; technical, 107s. 6d.; AMYL SALICYLATE, 2s. 2d. per lb. for cwt. lots up to 2s. 6d.; AUBEPINE, ex para creosole, 8s. to 8s. 6d. per lb.; BENZALDEHYDE, f.f.c., 2s. 2d. to 2s. 4d. per lb.; BENZYL ACETATE, 1s. 3½d. to 1s. 8d. per lb.; BENZYL ALCOHOL, cwt. lots, 1s. 11d. up to 2s. 3d. per lb. for small lots; BROMSTYROL, 100 per cent., 9s. 6d. to 11s. per lb.; BUTYRIC ACID, 3s. 3d. to 3s. 6d. per lb.; CITRAL, chemically pure, steady at 7s. 9d. to 8s. 3d. per lb.; COUMARIN, 7s. 3d. to 8s. per lb.; ETHYL PHTHALATE is steady at 1s. 4d. to 1s. 9d. per lb.; EUGENOL, 7s. 6d. to 8s. per lb.; GERANIOL, ex palmarosa, 15s. to 17s. per lb.; HELIOTROPINE, 100 per cent. crystals, 6s. 9d. per lb., as to quantity; ISO EUGENOL, 9s. 6d. to 10s. per lb. METHYL ANTHRANILATE, 6s. 6d. to 6s. 9d. per lb. MIRBANE is quoted at 7d. to 8d. per lb.; MUSK, KETONE, 19s.; AMBRETTE, 18s.; XYLOL, 4s. 6d. per lb.; TERPINEOL, 1s. 4d. for ton lots up to 1s. 9d. per lb. for small parcels.

Commercial Notes

AGAR EXPORTS.—The annual exports average about 2,000,000 lb., valued at about yen 3,000,000. The chief destinations are as follows, average annual figures being given:—

	Lb.		Lb.
China	194,000	France	187,000
Straits Settlements	140,000	Britain	280,000
Hong Kong	230,000	Germany	310,000
Netherlands Indies	218,000	United States	340,000
French Indo-China	10,000	South America	10,000
India	72,000	Australia	35,000
Philippines	22,000	Netherlands	6,000
Siam	14,000	Italy	7,000

ITALIAN CITRATE OF LIME PRODUCTION.—According to statistics published by the Camera Agrumaria, 2,238 tons of citrate of lime were deposited with the Camera during the first seven months of 1934-35 (December-June inclusive), compared with 3,549 tons during the corresponding period of 1933-34. In addition, production by the two manufacturers of citric acid for their own consumption totalled 446 tons. Stocks of citrate of lime held by the Camera at the end of June totalled only 860 tons. The depletion of stocks is due to the unusually heavy sales of citrate of lime which have taken place during the current year. The position of stocks as of June 30, 1935, was as follows:—

	M. tons
Stocks on November 11, 1934	2,056
Increase in 1933–34 receipts	61
Deposited during 1934–35	2,238
	4,355
Sold during 1934–35	3,286
Stock as of June 30, 1935	1,069
Damaged	209
	860

GERMAN MEDICINAL PREPARATIONS EXPORTS.—Exports for the period January-June, 1935, of prepared medicines were valued at 38,620,000 marks. While Germany's principal foreign customers for these products are such European countries as Italy, Spain, Switzerland, Roumania, Austria and the Netherlands, there are a number of East Indian and Latin American countries whose purchases for the period exceeded a million marks. One outstanding development in Germany's medicinal foreign trade during recent years has been increased foreign sales among the Latin American countries. Substantial foreign sales are being made to Argentina, Brazil, Colombia, Cuba and Mexico. Sales to Australia were valued at 200,000 marks. Details of the trade in the first six months of 1935 are shown in the following table:—

	'000 Marks		'000 Marks
Europe (total)	20,463	Asia (total)	6,269
The Saar	139	British India	1,239
Belgium	940	British Malaya	218
Bulgaria	361	China	1,222
Denmark	407	Iran	265
Danzig	148	Japan	872
Poland	732	Netherland India	1,005
Finland	191	Palestine	410
France	581	Philippines	141
Greece	713	Siam	153
Great Britain	715	Turkey	483
Italy	3,523	Other Asia	120
Yugoslavia	716	Latin America (total)	9,553
Latvia	212	Argentina	1,474
Lithuania	137	Brazil	2,650
Netherlands	1,113	Chile	523
Norway	283	Colombia	908
Austria	1,161	Cuba	712
Portugal	357	Ecuador	108
Rumania	1,320	Mexico	1,710
Sweden	730	Nicaragua	125
Switzerland	1,512	Peru	240
Spain	3,052	Salvador	115
Czechoslovakia	769	Uruguay	194
Hungary	388	Venezuela	289
Africa (total)	1,530	N. America (total)	565
Egypt	767	United States	398
British South Africa	349	Canada	143

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

A Shop Front in a Hull Museum

SIR,—Referring to the note which appeared in your impression of August 24 under the above heading, if it should happen that any of your readers have anything suitable for exhibition, which they are not requiring, we shall be glad to hear from them. I am particularly anxious to get a pair of the large cylindrical jars such as were exhibited with rhubarb, Harvey's Cough Pills, and the arms of the Pharmaceutical Society; also any leech jars or other objects of that kind. We have a fine series of the carboys with coloured liquids. I suppose one dare not hope to get a set of mahogany drawers with various labels in black and gold, such as one used to see on the wall behind the counter in a chemist's shop?—Yours faithfully,

T. SHEPPARD, M.Sc.,
Director, Hull Municipal Museums.

Hull.

The Major Examination

SIR,—Your "Retrospect of Fifty Years Ago" appearing in the *C. & D.* of October 5 on the above subject takes my mind back to that date and the two or three years after, and it may be somewhat interesting if I jot down my brief reminiscences of that period. The Major examination had been gradually declining in popularity, I suppose from a business point of view; it held out no more promise of success to the holder of the "diploma" than the holder of a Minor certificate of those days. The facilities for study were very few indeed; definite tuition could only be had in four or five centres in the United Kingdom; and many employers in those days were reluctant to give time off for study. Personally, I held hopes of taking the examination myself; in fact, when a student for the Minor at Luff & Woodland's in London in 1887, my chemistry was so far advanced (having some time before won the *C. & D.* "Corner for Students" prize twice) that the principals put me on the Major work at once. After passing the Minor they tried to persuade me to continue for the Major, as they said I would almost get through then. But the stated time had to be three months after; hence the expenses of further coaching and the then fee—£5 5s., I think—was some consideration; but a very big consideration was my observation of the declining number of entrants, as it showed that in from twelve to fourteen years there would be only one entrant per year; but the Council at that time, or soon after, decided to give it a new stimulus by dropping the fee—I think to £3 3s. Then a change took place. We have travelled very far since those times, and the present Major examination is a stupendous affair; doubtless the knowledge is worth having, as indeed is any knowledge—but what about the commercial advantage, if one follows retail pharmacy, if one may use such a term? The Society mentioned in the latter part of your paragraph has gone so far as to wish to usurp our statutory title "chemist" and leave us with "pharmacist" only. So our change of title—I now refer to the Minor man by the 1908 Poisons and Pharmacy Act—has not been an unmixed blessing, and quite a number are returning to the old title "chemist." We must see to it that this is our title; we do not interfere with the analytical chemist using it, so long as he is not engaged in retail business, but by Act of Parliament "chemist" is our own title.—Yours, etc.,

J. G. WALLBRIDGE.

Liverpool.

A Scarcity of Apprentices

SIR,—In your excellent last week's issue "Declination" writes (p. 435) on the dearth or death of apprentices, and wonders why. I can tell him. Does "Declination" think that any parent having a grain of common sense, knowing the circumstances, viz., that any seven people from the streets can take the title of chemist, whereas the apprentice would have to devote years and much good money to obtain and also stand the racket of being one of the 10-15 per cent. who get through at first attempt—such is the terrible list of failures. Then, after it all—title filched. A "financier"—save the word!—can open shop next door to him or send a "blackleg" chemist to get him to sell his business (this is being done constantly) if it is worth buying. Now can "Declination" see the reason for the dearth? Let parents once know the truth of the present conditions and what is before the entrant, only a fool would let his child enter; and "Declination" will see still fewer or none entering pharmacy.—Yours, etc.,

RETAILER (15/10).

Accuracy in Dispensing

SIR,—"Scrutator," in his article on "Accuracy in Dispensing" (*C. & D.*, September 28, p. 390), discusses in detail errors arising from incorrect bottle capacity. To make up every mixture in a graduated measure would be quite impracticable in a panel practice where from twenty to thirty scripts or more may be handed in during the last hour at night. Dispensing straight into the bottle raises the question of where it should be filled up to; a few trial measurements will show that this can make a considerable difference in the total volume. The inspector, when taking a test mixture, sticks a gummed strip to mark the height of the liquid in the bottle, and this should solve the question of error due to bottle capacity. If the correct quantities of drugs are dispensed in an 8-ounce tablespoon bottle, and the patient takes one graduation, he is getting one-sixteenth of the mixture and therefore the correct dose as prescribed; any small error in the total volume affects the water or other vehicle and is immaterial. The analyst, by noting the volume marked by the inspector, can verify the quantities of drugs dispensed. I would like to point out that whilst dispensing bottles from the best manufacturers are usually as accurate in capacity as can be expected, poison bottles are very deficient in this respect, especially in the smaller sizes.—Yours truly,

CAPACIOUS (1/10).

Dispensing Notes

Incompatible

SIR,—What is the correct way to dispense the following mixture?:—

Quinin. dihydrochlor.	gr. xxxij.
Potass. citrat.	℥vss.
Tr. gelsem.	♏ijss.
Aq. chlorof. ... ... ad	℥viij.

Yours faithfully,
D. H. W. (9/9).

[Quinine dihydrochloride, and quinine hydrochloride, dissolved in water, in weak or concentrated solution, are incompatible with potassium citrate. A heavy white precipitate is formed in each case. The best way, therefore, is to use mucilage of tragacanth or pulv. tragac. comp. Put 1½ drachms pulv. tragac. comp. into an 8-oz bottle, add the tincture of gelsemium and mix. Add to this 2 oz. aq. chlorof. and shake. Add the quinine salt dissolved in 2 fl. oz. aq. chlorof., shake, and finally add the solution of potass. cit. with the remainder of the aq. chloroformi. Shake well and cork. Label "To be shaken before pouring out each dose."]

Clear Solution Possible

SIR,—Will you let me know if there is any way of dispensing the following without diminishing the quantity of salicylic acid?

Acide salicylique	2
Acide phénique liq.	8
Acide acétique	8

Yours faithfully,
A. G. V. (20/8).

[Acide salicylique is our salicylic acid. Acide phénique liq. is phenol 900, distilled water 100. Acide acétique of the French Codex is practically our glacial acetic acid. When these three are mixed together, by weight, in the quantities stated, put into a bottle, or small flask, corked, and stood in very hot water for a short time, they will mix together into a clear solution. On cold nights the solution crystallises out, but it redissolves on heating, and remains liquid at 38° C.]

Veterinary Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Alpha (12/86).—TASTELESS DOG PILL.—Whether ext. filicis deteriorates in this form depends on the other ingredients. The best coating for a preparation of this character is gelatin. A standard formula for the gelatin coating is:—

Gelatin	4 oz.
Gum acacia	1 oz.
Boric acid	¼ oz.
Water	2 pints

V. M. G. (8/34).—(1) HOOSE IN CATTLE.—This complaint is caused by parasites in the lungs. The injection of drugs into the wind pipe is considered by some to give good results. This form of treatment is extensively practised, but should be undertaken only by a veterinary surgeon. Fumigation and chloroform inhalation are also reported to have given satisfactory results, but are dangerous to apply, and here again the services of a veterinary surgeon should be requisitioned. It is popularly supposed that various volatile drugs, such as turpentine, which are in part excreted by the lungs, will, if administered by the mouth, kill the parasites during the process of excretion. These drugs are, however, excreted by the lungs in such small quantities as to be quite harmless to the parasites, and the treatment is not effective. Formulas for such preparations are as follows:—

I

Tr. asafet.	ʒij.
Ol. tereb.	℥j.
Ol. lini	℥iv.

M. Ft. haust.

II

Ferri perox.	ʒij.
Spt. picis	℥j.
Ol. tereb.	℥j.
Ol. lini ... ... ad	℥viij.

A small tablespoonful night and morning.

None of the above-mentioned medicinal treatments has given much promise under experimental conditions, and the only sound course left open, where once the disease has made its appearance, is to feed and house the affected animals well, and to remove them from the infected pasture where they are continually picking up more worms. These measures will do a great deal towards insuring their final recovery.—(2) REDWATER IN CATTLE.—Treatment is more preventive than curative. The best method of attack is to remove the ticks, which are the medium of infection. The following treatment is mentioned in "Veterinary Counter Practice" (p. 199):—

Give as a purge one pint of linseed oil, and as a drench either:—

I

Spt. aether. nitros.	℥j.
Tr. opii.	℥j.
Tr. ferri perchlor.	ʒj.
Aquam ... ... ad	Oij.

Make one drench.

II

Potass. nitrat.	ʒx.
Antim. nig.	℥iij.
Pulv. glycyrrh.	℥v.

A tablespoonful in bran or mixed with honey and placed on the tongue, every four or five hours until urine is clear.

Care in feeding, especially frequent changes of food, must be attended to. If the animal will not eat, linseed and oatmeal must be given in the form of gruel, together with milk and raw eggs. Fresh air is requisite, but an even temperature should be kept up. No diuretics or astringents are to be used, nor any stimulants applied to the loins.

P. L. (26/78).—WORM REMEDY FOR DOGS.—Liquid paraffin is not a suitable base since it tends to coat the intestines and would thus prevent the vermifuge from achieving its full effect. Where an oily base is employed in a worm remedy, it is always a vegetable oil. The following is a suitable worm remedy for adult dogs:—

Ol. chenopodii	℥j.
Ol. terebinth.	℥j.
Chloroformi	ʒij.
Ol. ricini	℥xiv.

Give from ½ drachm to 2 drachms in an equal amount of castor oil.

M. J. B. (26/78).—STOMACH POWDER FOR CALVES.—The powder is of a dark mustard colour with only slightly aromatic odour. It contains sodium chloride (say 40 per cent.), sodium carbonate (say 10 per cent.), starch (say 35 per cent.) and a little vegetable powder which appears to be of the leaf and stalk type, but was not identified.

J. M. (21/68).—FITS IN DOGS.—Without knowing more of the nature of the fits it is somewhat difficult to suggest treatment. The usual sedatives can be given as a rule and a formula for a mixture is:—

Chloral hydrate	ʒj.
Potassium bromide	ʒij.
Syrup	a sufficiency
Water ... ... to	℥iv.

From two teaspoonfuls to a tablespoonful in water every four hours.

Hysteria in dogs was the subject of a note in the *C. & D.*, 1935, I, 556. As a tonic the following can be given:—

Ferri et am. cit.	ʒj.
Tr. cinchonæ	℥vj.
Tr. calumbæ	℥vj.
Syrupi	℥ij.
Aq. ... ... ad	℥vj.

Two teaspoonfuls to a tablespoonful three times a day.

F. B. (13/83).—COLOUR FOR SHEEP DIP.—Yellow ochre is frequently incorporated in sheep dips to give a better colour to the wool. Within the last few years quantities of wool have been coloured with a substance that causes the wool to become a brilliant orange yellow on being scoured. Analysis of this colouring matter by the Wool Industries Research Association shows that it is a substance known as metanil yellow, which may be a component of some dips or may be an added substance for the purpose of giving bloom to the wool. The substance is a dyestuff with a strong affinity for wool. The colour thus given to the wool cannot be removed in the course of ordinary commercial processing, and therefore depreciates the value of the wool for manufacturing purposes. In these circumstances, farmers are strongly advised to avoid the use of dips or washes which may contain this substance.

M. B. (21/35).—JAUNDICE IN DOGS.—Yellows or jaundice in dogs can be of several types, and a correct diagnosis must be made before treatment can be properly applied. Jaundice caused by the leptospira, which sometimes affects dogs kept together in numbers, is a very serious disease, and not many recover. Even the less serious catarrhal form needs something more than the indiscriminate use of drugs. Trypan blue has been used with varying success. It is administered subcutaneously or intravenously, the latter being preferable, but it can only be of value in the hands of a skilled person. Its rule-of-thumb administration is to be deprecated.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," October 15, 1885

International Pharmacopœia

Perfect or imperfect, the draft work [of the proposed International Pharmacopœia] will remain, certainly till 1888, as the expression of opinion of the picked pharmacists of the world in regard to desirable processes, formulas and strengths. . . . In these circumstances the directors of the scheme should be assisted and encouraged in their labours by expressions of appreciation and approval, as well as by suggestions or any other form of help. . . . M. von Waldheim's draft presents two distinct classes of articles, namely "important" and "less important." . . . Of the 181 "important" articles half are preparations, and these are "important" from the fact that they occur in the majority of the Pharmacopœias, are therefore widely known and prescribed, and are more or less potent remedies. [The *C. & D.* reprint of the proposed work, entirely in Latin, occupied nineteen and a half pages of that issue.]

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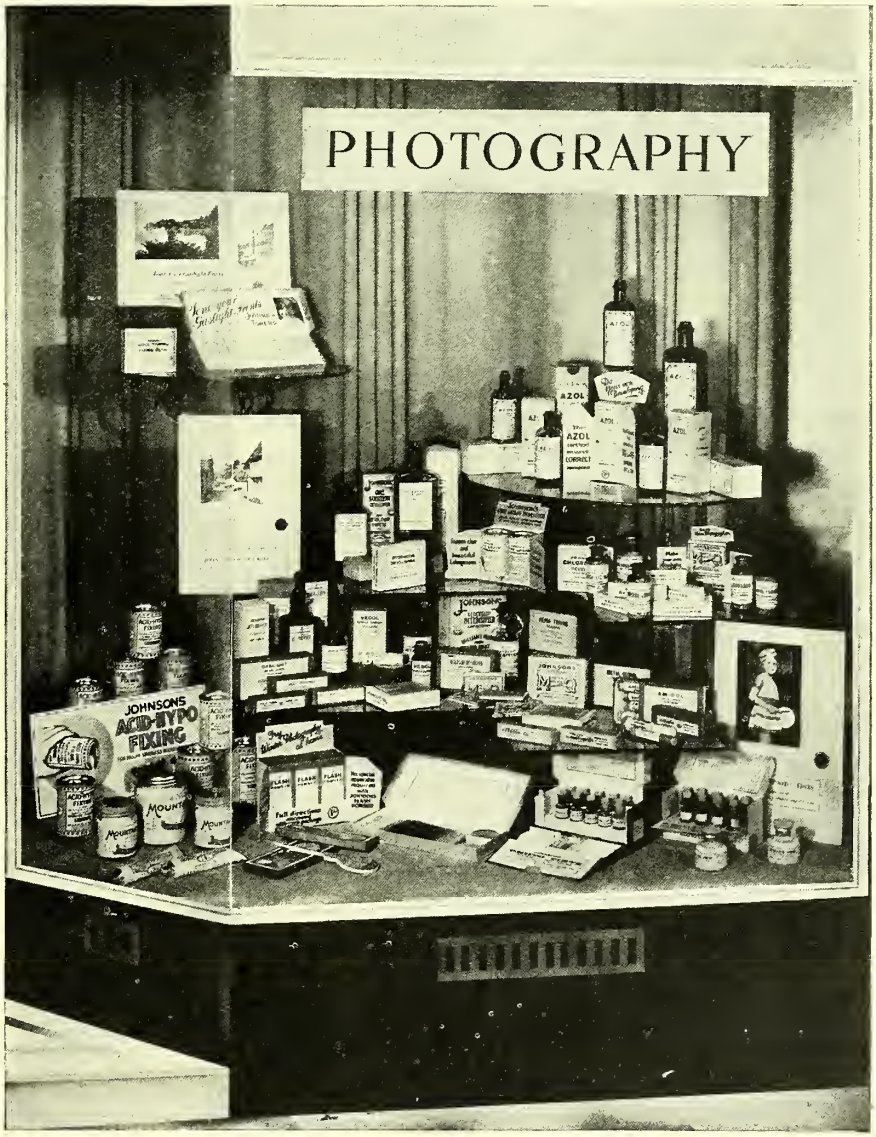

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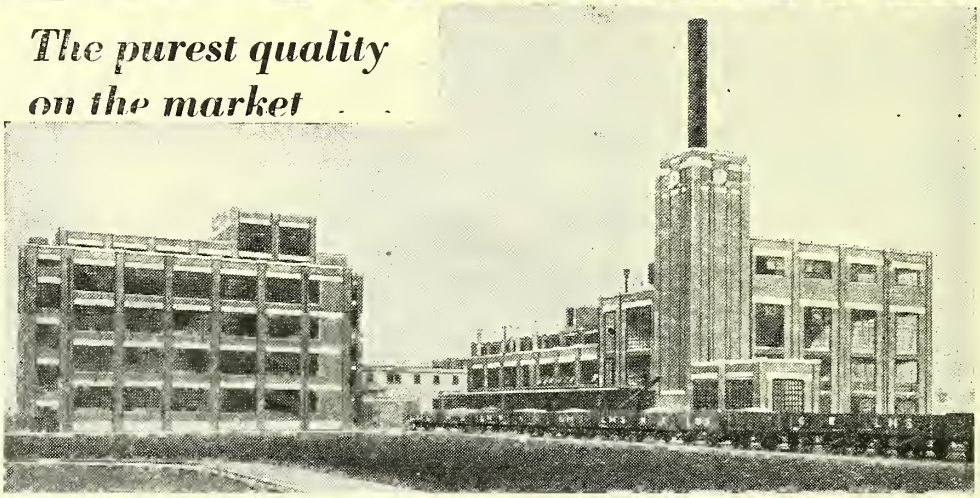

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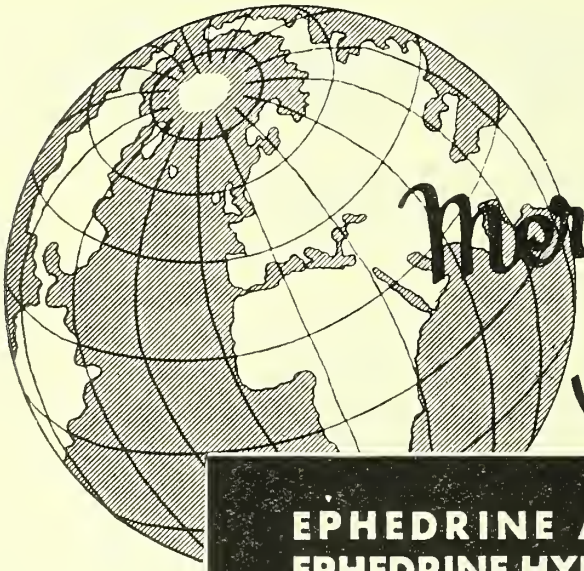

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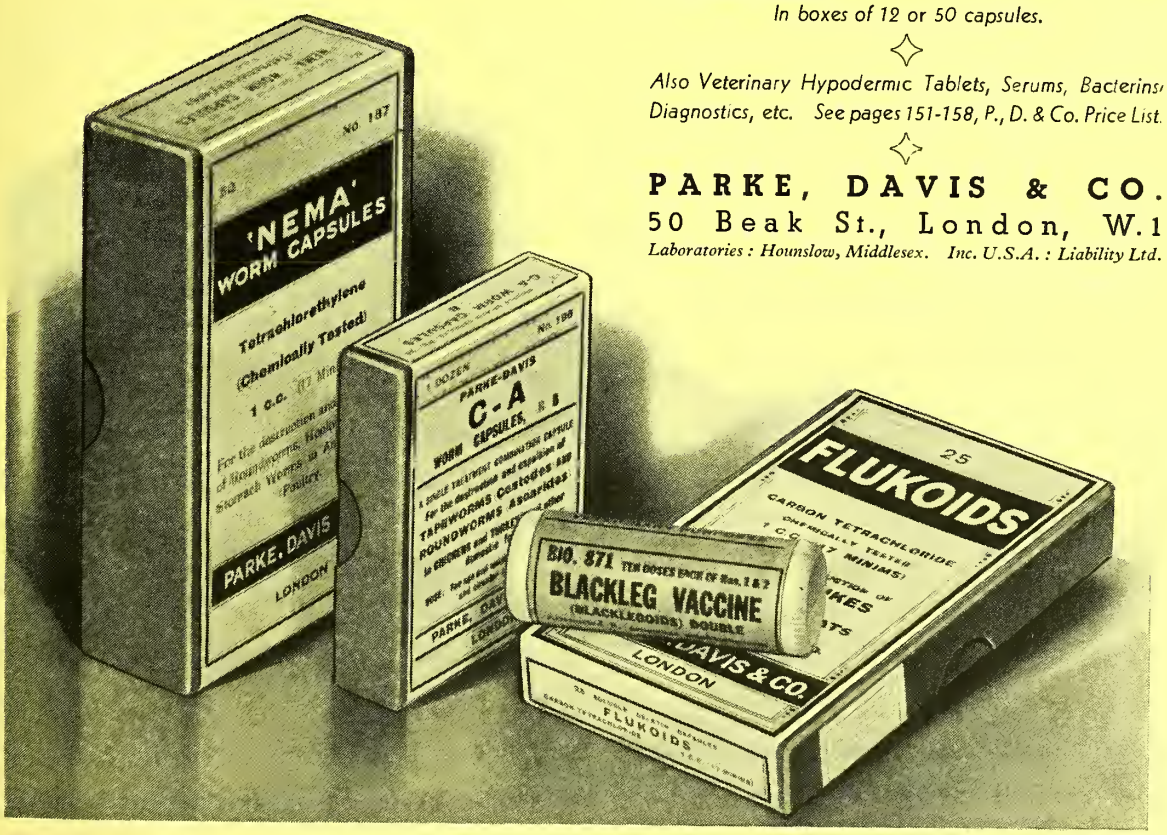

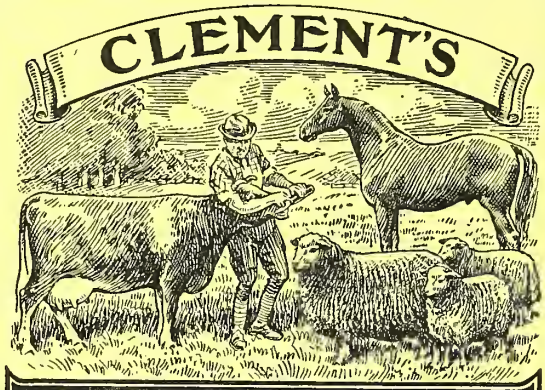

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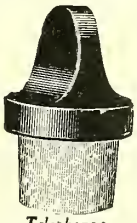

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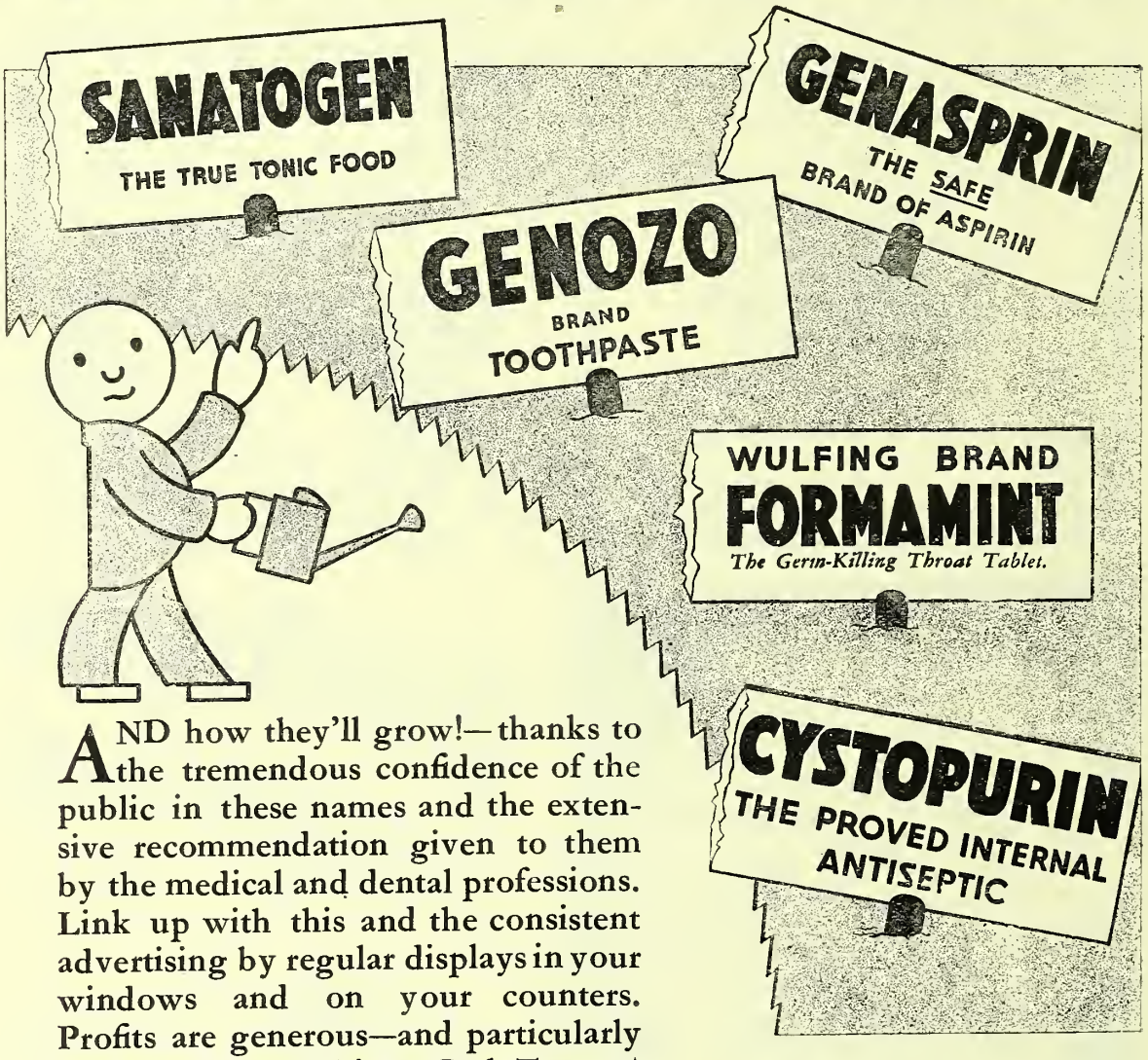

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Follows increased advertising in National and Periodical Press and Broadcasting. Advertising D.D.D. Prescription as a skin cleanser and tonic has created a new market for this lotion and other D.D.D. products.

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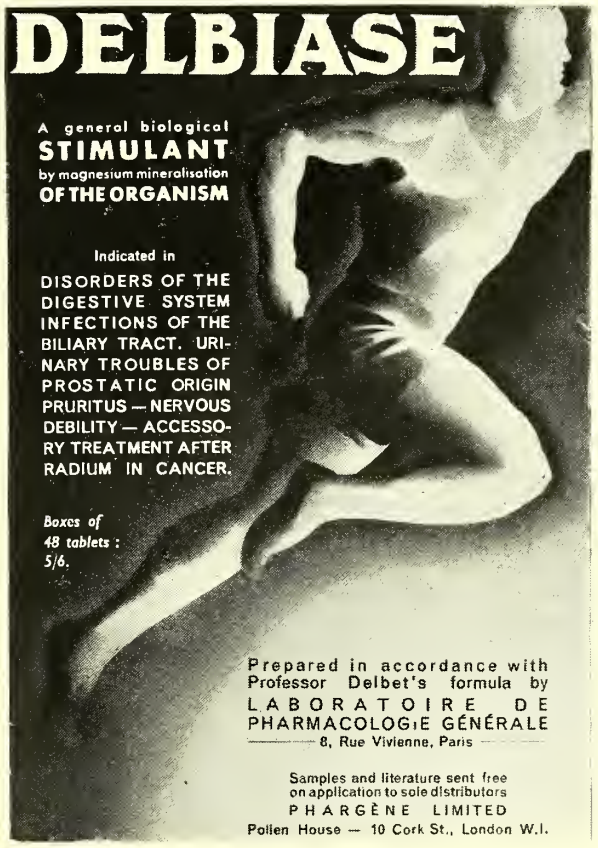

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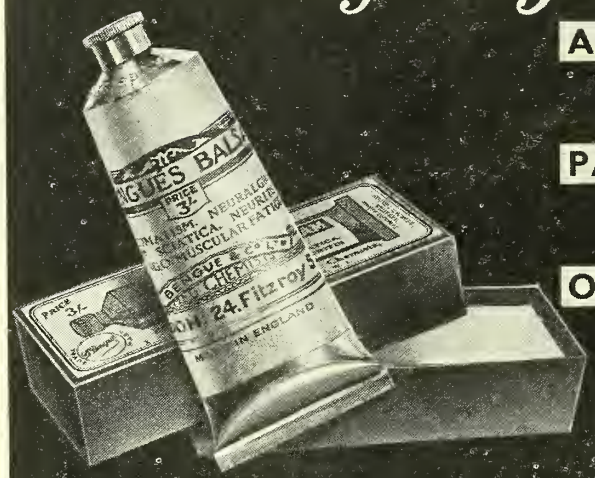

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Combination of Magnesium Sulphate and Meat Peptone, used as a cholagogue and also cholecysto-kinetic

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Fluid extract of Passiflora Incarnata, circulatory and nerve sedative. A non-toxic preparation

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A remineralising agent composed of mineral salts and gland extracts. Recommended for Tuberculosis, Rickets, &c.

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Gives almost instant relief in cases of Rheumatism, Neuralgia, Lumbago, &c.

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[58/28]

The
CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C. 2

OCTOBER 12, 1935

ADVERTISEMENT TARIFF

ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

BUSINESSES WANTED and for DISPOSAL, PREMISES TO LET and FOR SALE, PREMISES WANTED, PARTNERSHIPS, GOODS for SALE and AGENCIES—**6/-** for **50** words; every additional **10** words or less, **6d.** (Box No., **1/-** extra.)

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must reach us not later than **FIRST POST THURSDAY MORNING**

All advertisements intended for insertion in this Supplement

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We make no charge to purchasers, and invite intending buyers to communicate with us, stating their requirements

1.—LONDON, S.E.—Cash Retail Business with excellent Panel; turnover this year will be about £2,500; very nice living accommodation; premises must also be purchased (on which a substantial mortgage could be raised); price of business £1,300 or valuation terms entertained.

2.—LONDON, E.—Business for sale owing to family bereavement; returns £750 per annum, under aged management; net profit about £200 per annum; rent £40; sublet 15s. per week; new Lease; price all-at £250.

3.—LONDON, N.W. (GOOD-CLASS SUBURB).—Middle-class Business making £900 to £1,000 per annum Gross Profit; reasonable expenses; living accommodation available if required; price all-at £1,550; genuine reason for disposal.

4.—PADDINGTON (NEAR).—Old-established Business for sale taking about £20 per week; net profit £250 per annum; Accountant's figures; low purchase price; Vendor must leave London on doctor's orders.

5.—WATERLOO (NEAR).—Middle and Working-class Business; takings approach £3,000 per annum; Chartered Accountant's figures; living accommodation over; rent £220; long Lease; price all-at £1,500 or valuation terms entertained.

6.—FINCHLEY (DEATH VACANCY).—Cash Retail Business with Panel; takings present rate £50 per week (last week £57); stock and fixtures worth about £775; property must also be purchased; further particulars upon application.

7.—HIGHGATE (NEAR).—Cash Retail Business with N.H.I.; takings this year will be about £2,500 and the net profit about £650; main-road position; purchase price £1,750; offers entertained; Vendor bought another business.

8.—SOUTH LONDON.—Good-class Cash Retail and Dispensing Business; returns last year £3,200, this year an increase is shown; prospective purchasers with approximately £2,000 at command may apply for further details.

9.—TWICKENHAM (NEAR).—Good Middle-class Residential Business; customers' average purchase 1s.; returns about £1,200 per annum; excellent profits; rent under £1 per week; price all-at about £550 or near offer.

10.—NORTH LONDON.—Middle-class Business with increasing turnover, present rate £15 to £18 per week plus N.H.I. 10s. to 15s. per week; stock and fixtures worth about £370; comfortable living accommodation; small garden; price all-at £420 or near offer.

11.—KENT.—Herbal Drug Stores; net profit about £5 per week; long Lease at £40 per annum; price all-at £250; Vendor leaving the country.

12.—CHELMSFORD (NEAR).—Middle-class Cash Retail Business; returns have been up till recently about £35 per week; rental £55 per annum; Lease available; price, valuation of stock and fixtures only.

13.—NORFOLK.—Good Middle-class Cash Retail Business; turnover approximately £2,500 per annum; gross profit about 40 per cent.; net profit to working proprietor £600 to £650 per annum; certified accounts; attractive premises with living accommodation over; rent £80 per annum; held on Lease; stock and fixtures worth about £1,400; this business must be sold forthwith owing to a breakdown in health of the Vendor and the first offer of consequence will be accepted.

14.—FARNBOROUGH (NEAR).—Good Middle-class Retail Business for disposal; returns about £1,650; nice living accommodation; stock and fixtures estimated to be worth £1,000; price all-at £1,250 or valuation terms entertained.

15.—SUSSEX (30 MILES OUT) (COUNTRY TOWN).—Middle-class Business; returns present rate £1,250 per annum; net profit £335; good clean stock worth £350; 8-roomed house with bathroom; price all-at £700 or near offer.

16.—SOUTHEND-ON-SEA (NEAR).—Cash Drug Store returning between £13 and £17 per week; scope; good living accommodation; 24 years' Lease; price all-at about £275.

17.—BOURNEMOUTH (NEAR).—Middle and Good-class Business; returns £900 per annum; excellent profits; good living accommodation; stock and fixtures worth £350; immediate sale desired; price all-at £375; part payment terms entertained.

18.—BUCKS.—Drug Stores for disposal; takings £32 per week under management; stock £235; price all-at £350; held on Lease.

19.—BRIGHTON.—Business to be sold immediately owing to serious illness; takings average recently over £1,200 per annum; good living accommodation; no reasonable offer refused; worth immediate consideration.

20.—ESSEX (SUBURB).—Cash Retail Business with Wireless; net profit £408 last year; rent £100; house sublet at £52; long Lease; price all-at £750.

21.—LEATHERHEAD (NEAR).—Dispensing and Photographic Business; returns last year £1,122; flat over with private entrance; stock and fixtures worth about £450; garden; rent £104 per annum; price asked, valuation of stock and fixtures only or near offer.

22.—LONDON.—Messrs. Ascotts Pharmacies (1933), Ltd., are prepared to dispose of a number of their branches on a part-payment basis; this is an exceptional opportunity and enquiries are invited.

Chemists' Transfers, Valuations for Sale, Stocktaking & Probate

Special Terms for Income Tax Valuations and Preparation of Accounts by Qualified Accountants.

ERNEST J. GEORGE & Co.

Bank Chambers, 329 High Holborn, London, W.C.1
Telephone Nos.: Holborn 7406 & 7407 (2 lines)

15 Bridge Street, Walsall Telephone: Walsall 3774

Lancashire and District Representative: Mr. E. BROWN, 21 Davenport Road, Hazel Grove, Stockport. Telephone: Great Moor 2405

Correspondence, mutually confidential, is invited from prospective purchasers of the following businesses at present available for purchase.

(C1) SURREY (NEAR TO LONDON).—Attractive modern pharmacy occupying strategic position in prominent shopping thoroughfare of rapidly-growing middle-class area; turnover steadily increasing; last year's returns amounted to £2,963, with a gross profit of approximately 35 per cent.; good living accommodation at present sub-let; exceptional scope for optics; price all-at £2,500.

(C2) N.W. LONDON.—Middle-class business doing at present approximately £50 weekly, and steadily increasing; good N.H.I.; audited figures; low overheads; price by arrangement; strongly recommended.

(C3) SURREY.—Well-kept pharmacy with small compact house, including 3 bedrooms, bathroom, etc.; turnover for 1934/35, £1,246; no near opposition; rent £50; price £800 or near offer.

(C4) MIDDLESEX.—Old-established excellent profit-earning business situated in growing area; turnover approximately £2,600 per annum; net profit to owner-proprietor £650/£700; low rental; long lease; price £2,250 all-at, or near offer.

(C5) ILFORD.—Prominently situated; net profit approx. £600 per annum; living accommodation; reasonable purchase price for quick sale, which is desired owing to other interests.

(C6) LONDON AND DISTRICT.—Several businesses with good scope for further development, are available for purchase at low figures; if desired, initial sums of £50/£100 down and the balance by periodical instalments, will be accepted; present turnovers vary between £750 and £1,400 per annum; further details upon application.

(C7) WESTCLIFF.—Splendid opportunity for enterprising chemist to acquire good progressive family business in prominent residential district; accountants' figures; turnover for last year, £1,363; net profit, £335; rent, £100, including good house; first reasonable offer secures; well recommended from personal knowledge; part of purchase money could probably be raised on loan if desired.

(C8) FINSBURY PARK (NEAR).—Old-established dispensing business offering abundant scope for immediate increase; present returns approximately £700 per annum; gross profit 45 per cent.; rent, £60; sub-let £65; less than value of stock and fixtures will purchase; owner retiring; under energetic proprietorship this business can be easily and quickly resuscitated.

(C9) MORDEN (NEAR).—Good middle-class business with some optics; steadily increasing returns, which for last financial year amounted to £1,878; net profit, £400/£450; modern flat above; stock and fixtures estimated at £950; for quick transaction owner will sell at sacrifice price of £1,100 all-at; splendid opportunity, particularly for chemist-optician.

(C10) HOVE.—Undeveloped business with good self-contained house, including bathroom, small garden, etc.; present returns approximately £20 per week; abundant scope for increase; genuine reason for selling; price, all-at, £450, or first reasonable offer.

(C11) NORTH WALES.—High-class retail business, with good living accommodation; turnover for last year £1,469; quick sale desired owing to sudden domestic rearrangements, which necessitate early removal South; value of stock and fixtures accepted; (stock estimated at £620 and fixtures £200).

(C12) CROYDON.—Up-to-date lock-up pharmacy showing steady and consistent increase; present turnover approximately £1,100 per annum; low overheads; price for quick sale about £490, including a very small goodwill; excellent opportunity for chemist desirous of acquiring a business which will show a reasonably good living under easily worked conditions.

(C13) MUSWELL HILL (NEAR).—Good family business, in present hands 40 years; large panel; turnover now approximately £1,500 per annum, with plenty of scope for further increase; self-contained house; owner retiring; £300 is asked for goodwill, plus value of stock and fixtures; open to offer.

(C14) LANCASHIRE TOWN.—Double-fronted main-road pharmacy situated in central position; certified turnover for 1934/35, £1,620; net profit £450; excellent living accommodation; property can be purchased or taken on lease; reasonable goodwill accepted, plus value of stock and fixtures.

(C15) MANCHESTER SUBURB.—Up-to-date middle-class business, situated in populous residential area; no near opposition; turnover upwards of £2,000 per annum; net profits £500/£550; low rental; price all-at, £1,650.

(C16) YORKSHIRE (WEST RIDING).—Old-established dispensing business, in present hands 30 years; average turnover approximately £2,000 per annum; property can be purchased or taken on lease; good living accommodation; further details in strict confidence to genuine prospective purchasers with available capital.

(C17) BRIGHTON.—Main-road business, neglected, but with excellent opportunities for increase; living accommodation; owner desirous of quick sale for genuine reasons, and will accept first reasonable offer; full particulars upon application.

(C18) BLACKPOOL.—Good-class pharmacy occupying prominent position; old-established; turnover upwards of £1,700 per annum; net profit to owner-proprietor, £450, with plenty of scope for increase; price about £750, including stock £450; very attractive proposition.

(C19) KENT.—Exceptional opportunity for enterprising chemist to acquire increasing business with property for an outlay of approximately £700; turnover for 1933/34, £998; 1934/35, £1,203; up-to-date self-contained house, with good garden and garage; no near opposition; situated on main road; full particulars upon application.

Valuations for transfer, probate, income tax, etc., promptly executed at economical rates.

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CHEMISTS' VALUERS AND TRANSFER AGENTS,
41 Argyle Square, KING'S CROSS, W.C.1
(One minute from St. Pancras and King's Cross Stations.)

1.—ESSEX COAST.—Exceptional chance; good-class business in busy shopping centre; must be sold through illness; returns exceed £2,600; gross profits a third; attractive shop, fully stocked; price £1,000, less than value of stock and fixtures.

2.—LEICESTER.—Good-class Suburban Business, in select district; returns over £1,300, net profit £323; good house; long lease granted or would sell; well fitted and stocked; price £900 or near offer.

3.—NORFOLK.—Old-established Business, in central position of important town; returns under manager £776, net profit over £200, plenty of scope; large premises; low rent; own property; valuation, plus small goodwill.

4.—SUSSEX COAST.—Well-established Business; pleasantly situated on sea front; turnover about £20 weekly; good house; long lease; price about £325, little more than valuation.

5.—LEIGH-ON-SEA.—Well-established Business; has been neglected; returns under manager £17-£20 weekly; plenty of scope; attractive shop, with good house; price simply valuation; stock reduced to suit purchaser.

6.—HERTS (busy town).—Good Middle-class Cash Retail; in good position and offering plenty of scope; turnover about £30 weekly; well-fitted shop, fully stocked; illness sole cause of sale; price £850.

7.—LONDON SUBURB.—Light Cash Retail, with good Panel, in busy main road; has been neglected; present returns about £35 weekly, scope for doing £40; low rent; good house; fully stocked; price £900; personally recommended.

8.—SOUTH LONDON.—Quick Cash Retail; in busy marketing centre; turnover approaches £3,000; modern pharmacy, with living accommodation; well stocked; books audited; lowest cash price £1,500.

9.—HORNSEY (near).—Sound Middle-class Business, with excellent Panel; returns last year £1,480; neglected; was doing £1,850; owner retiring; well-equipped Pharmacy; good position; stock worth £600; offers invited; personally recommended.

10.—VICTORIA PARK (near).—Old-established Business, returning under manager £15-£16 weekly, plus N.H.I.; scope for increase; house attached; good stock; price for early sale £350.

BUSINESSES WANTED.—We have a large number of genuine Cash Buyers seeking sound concerns showing from £300 to £800 net profit yearly, and intending vendors desirous of a quick sale, without any publicity, should communicate with us at once.

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A Client who has the necessary capital at command is prepared to purchase forthwith for Cash any genuine businesses situate in the above Counties provided the turnover is over £1,800 per annum and the overheads are in proportion.

- He is willing to give good prices, and, once the terms are agreed, to complete without delay.
- If you have a business answering these requirements, and you are prepared to enter into negotiations, kindly communicate forthwith with

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TELEPHONES : CITY 2283, 7477 ESTABLISHED NEARLY A CENTURY

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BATH.—Suitable for Druggist or Chemist; growing working-class district; suit single man; well-fitted shop and some accommodation over; overheads less than £1 per week; price to cover stock, fixture and fittings, £200. Apply Receiver, "Wynchgate," Warminster Road, Bath.

CAPE TOWN.—Good-class Dispensing Business in pleasant neighbourhood for disposal; returns about £3,000, profits good; rent £150 p.a.; price £2,000; further details will be supplied to purchaser with necessary capital. 28/4, Office of this Paper.

HAMPSTEAD.—The Executors of Walter Taylor, deceased, are prepared to dispose of his business, situate at 442 Finchley Road, N.W.2; the takings present rate are about £50 per week; the premises are also for sale. For further particulars please apply to Messrs. Orridge & Co., 56 Ludgate Hill, London, E.C.4. Telephones: City 2283 and 7477.

LANCASHIRE. — Wholesale Business for disposal; turnover approximately £12,000, and increasing; large proportion own Proprietaries; main-road warehouse at low expense; business capable of substantial expansion and is excellent opportunity. Write for details, 16/38, Office of this Paper.

LINCOLN.—Middle-class Retail Cash Business; N.H.I., Optical and Prescribing; certified net average profit for last three years £430; average turnover £1,970; good position in main street. 29/16, Office of this Paper.

LONDON, N.W.—Medium Cash Dispensing Business in good position, next to Surgery; double-fronted shop, with scope and room for Chemist-Optician; returning about £250 net, but increasing with extending neighbourhood; long lease, low rental; well fitted and stocked; price £400, inclusive, for an immediate sale, necessary for genuine reasons. 31/2, Office of this Paper.

NORTH WALES.—Old-established Pharmacy; excellent living accommodation; Kodak Agency; opening for Optics; sound business; must be Welshman; valuation, stock, fixtures, small goodwill; property can be purchased. "R. O. S.," British Drug Houses, Ltd., London, N.1.

SOUTH COAST, near Bournemouth.—Good opportunity to acquire middle-class Pharmacy situated in rapidly growing district; nice living accommodation; Kodak, etc., Agencies; N.H.I.; turnover £700 p.a., increasing; rent and rates £91 p.a.; good reason for disposal; immediate possession; price £350 all. 30/49, Office of this Paper.

SOUTHEND-ON-SEA.—Chemist Double-fronted Shop, with good living accommodation; low rent; well stocked; trade £20 per week; price £350 all at. Station Estate Office, Prittlewell.

WARWICKSHIRE.—Industrial town; busy main-road position; double-fronted shop; well stocked and fitted; living accommodation; low overheads; takings about £30 weekly; net profit £300; chartered accountant's figures; N.H.I. 5-6,000 yearly; Kodak, Selo, Ucal Agencies; stock and fixtures £750 (N.P.U. valuation); price £900, all at; genuine buyers only, please. 22/13, Office of this Paper.

A VERY old-established Chemist Business in most central position in London, with valuable lease, might consider sale. Reply 30/32, Office of this Paper.

DRUG Stores, long established; lock-up shop, with cellar; electric light; 5 minutes' walk from Angel, Islington; good opening for Qualified man; for quick sale £60, including stock and fixtures. Apply by letter, W., 50 Halesworth Road, Lewisham, S.E.13.

ESTABLISHED good Middle-class Business for Sale; 8 miles from London; turnover £3,450, accountants' figures; good stock and living accommodation; long lease. 29/23, Office of this Paper.

FAMILY Mixed-class Business, West London; good stock; long lease; no living accommodation; audited figures; present hands 16 years; net profit last year £400; price £650. 27/1, Office of this Paper.

WELL-ESTABLISHED Middle-class Business for Sale, for genuine reasons, in S.W. London; in good unopposed position; turnover approaching £1,200, gross profit nearly 40 per cent., accountant's figures; well fitted and stocked; good Dispensing, with ample scope for prescribing; comfortable house and garden; long lease, low rates and rent; any investigation; price by arrangement. 30/51, Office of this Paper.

BUSINESSES WANTED.

REQUIRED IMMEDIATELY.—Good-class Dispensing Business; London, Home Counties or South Coast; must have good and increasing turnover; Rexall and Kodak Agencies an advantage; capital available £10,000. Full particulars, in confidence, P.C.B. 179/14, Office of this Paper.

REQUIRED.—Sound High-class Dispensing Business; turnover £4,000 p.a.; accountants' figures required; full particulars in confidence; cash down. 29/17, Office of this Paper.

PREMISES TO LET.

BOURNEMOUTH (8 miles).—In good-class rapidly growing residential district, Double-fronted Shop, in premier shopping area; good living accommodation; side and back entrances; garage; main drainage and services; rent £125. Rumsey & Rumsey, Broadstone, Dorset.

SOUTHALL.—Busy main-road position, adjoining multiple companies; block of 7 shops; frontages 18 ft., depths in clear space 35 ft. and upper parts, comprising self-contained maisonettes of 5 rooms; 5 units already let; excellent opening for Chemist, etc.; moderate commencing rent of £200 p.a. Apply Hillier, Parker, May & Rowden, 27 Maddox Street, W.1. Tele.: Mayfair 7666.

SOUTHEND-ON-SEA.—Parade of 11 New Shops; lovely living accommodation; low rent; all Staybrite steel fronts; one suitable for Chemist; opposite super cinema. Station Estate Office, Prittlewell.

HIGH-CLASS Shops to Let in new parade in best part of High Road, Streatham, from £140-£500 per annum. Apply Letting Manager, 17 Streatham High Road, 'phone Streatham 9627, or Bell Investment Trust, Ltd., 115 Park Street, Mayfair, W.1. 'Phone Mayfair 4201.

LARGE-SIZED Corner Shop to Let, with living accommodation above; 5 good rooms, bathroom, etc.; garage; excellent position in good-class district; rent £165 per annum. Apply 202 Trinity Road, Wandsworth Common, S.W.

NEW Shop to Let on Lease in new parade of shop premises; very suitable for trade of Chemist; no opposition; excellent living accommodation; main-road position; other trades already let include Grocers, Butchers, Greengrocers, Café, Ladies' Hairdressers, Tobacconists, Confectioners, etc. Feakes & Richards, Ltd., Builders, Brampton Road, Bexleyheath. Telephone: Woolwich 2078.

SHOPS at Greenford.—Wonderful opening for a Chemist in finest main-road position; rents from £200 p.a.; frontages 20 ft. by 40 ft.; electric railway coming. Apply Letting Office on site, corner of Clifton Road, Greenford Road, Greenford. 'Phone Perivale 1905.

TO LET.—Fine Main-road Shop, fitted with washbasin (hot and cold water); also w.c. at back; specially suitable Chemist and Druggist; no opposition for over mile; above, 3 bedrooms, sitting room, kitchen, bathroom, w.c.; room for garage; shop front fitted; commencing rent £80. Baines, Westmeon, Stanstead Road, Caterham.

WATES, The South London Quality Builders, have new Shops for rental in Beckenham from £110 per annum, including living accommodation. Full particulars from Wates, 98 London Road, Mitcham. 'Phone: Mitcham 2034.

AGENCIES.

FRANCE.—Exceptional facilities offered for Exploitation of Proprietaries by established firm with Laboratory, Warehouse, Organisation and large clientèle. 31/90, Office of this Paper.

AGENT wanted to sell Dried Medicinal Yeast to makers of Tablets, Pills, Capsules, etc.; commission basis. Midgley & Parkinson, Ltd., Pudsey, Leeds.

ENGLISH MANUFACTURERS OF SURGICAL RUBBER GOODS (PROPRIETARY BRAND) ARE OPEN TO GRANT SOLE CONCESSIONS FOR UNITED KINGDOM TO A FIRM OF DISTRIBUTORS HAVING FIRST-CLASS CONNECTION WITH RETAIL CHEMISTS, HAIRDRESSERS, etc. 267/671, Office of this Paper.

MANUFACTURERS of valuable product, daily increasing in demand, wish to co-operate with Distributors or chain Chemists to extend sales of same. Reply 30/320, Office of this Paper.

BUSINESS OPPORTUNITIES.

PATENTED NOVELTY.—Valuable Rights and Stock for Sale owing decease; suitable for Sundries trade; profitable line; unique demand; no factory needed; price £200. 31/9, Office of this Paper.

PARTNERSHIPS.

CHEMIST and Optician (M.P.S., F.S.M.C.) (aged 28), with excellent experience, seeks interest in sound business; capital available £800 to £1,000; also willing to consider Management with view to succession, or the immediate taking over of any business not involving more ready money than mentioned above; East Anglia preferred. 30/50, Office of this Paper.

SALE BY AUCTION.

Removed from Barnes for Convenience of Sale.

2 to 5 LITTLE BRITAIN (close to G.P.O.), LONDON, E.C.

CHEMISTS' SHOP EQUIPMENT, Drug Runs, Wall Cases, Glass-fronted Counters, Silent Salesmen, Mirrors, Dispensing Screen, Cash Tills, Office Furniture, etc.

B. NORMAN & SON

will Sell by Auction at their Sale Rooms, as above, WEDNESDAY NEXT, October 16th, at Twelve. View Day Prior. Catalogues of the Auctioneers, 5 Little Britain, E.C.1. Tel.: NAT. 6463.

SITUATIONS OPEN.

RETAIL (HOME).

6s. for 40 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BIRMINGHAM.—Qualified Junior for good-class Dispensing and Photographic business; must be capable of being left in charge; outdoors; no Sunday duty; state age, height, experience and salary required. 31/8, Office of this Paper.

BRISTOL.—Unqualified Junior Assistant (male) required for good-class business; must be accurate Dispenser and accustomed to quick Counter trade. Write particulars of experience, age, height, salary required and when disengaged to S. G. T., Hodders, Ltd., 5 Nelson Street, Bristol.

LONDON.—Junior Assistant, Male, required; one just finished apprenticeship would suit. Apply, stating age, experience and salary required, 31/12, Office of this Paper.

LONDON.—M.P.S., Lady or Gentleman, wanted; moderate initial salary, but good prospects for proved ability; part-time can be arranged if desired. Write full particulars, including minimum salary, 30/41, Office of this Paper.

LONDON.—Young Qualified man required immediately; must be capable Counterhand, Window-dresser and Dispenser. Write, giving full particulars of age, height, references and salary required, T. & E. Hutchings, Ltd., 225 Peckham Rye, London, S.E.15.

LONDON HOMŒOPATHIC HOSPITAL, Great Ormond Street, W.C.1.—Lady Assistant Dispenser (not under 25), Unqualified, with Hospital experience, required immediately; salary commencing £2 10s. per week; tea and overalls provided; hours 10-6 daily, half-day Fridays; superannuation scheme. Write, stating full particulars, with copies of testimonials, to the Secretary.

LONDON, N.—Junior Assistant required for good middle-class business (one having just completed apprenticeship will suit); reliable Dispenser with good references essential; state age, height, salary required. 30/4, Office of this Paper.

LONDON, N.W.—Lady Assistant wanted, Unqualified (26 to 30), with good all-round experience in a Pharmacy. Please give full particulars of experience, age and salary required, to Davies, 356 Neasden Lane, Neasden, London, N.W.10.

LONDON, S.W.16.—Junior Assistant required at once for high-class Dispensing business; good references essential. Apply, stating the usual particulars, to A. E. & G. L. Weston, Chemists and Opticians, 284 High Road, Streatham.

LONDON, W.1.—Smart Qualified Assistant required; previous West End experience essential; knowledge of French an advantage (not under 30 years of age). Full particulars of experience and salary required to 30/33, Office of this Paper.

LONDON, W.2.—Experienced Qualified Assistant, young, for good-class business, at once; must be good Display man, capable Salesman and Dispenser; please state salary and when free in first letter. Boully & Co., 85 Bishops Road, Bayswater.

LONDON, W.5.—Junior Assistant, competent and well trained, for good-class Family Dispensing business. Apply 31/6, Office of this Paper.

MANCHESTER.—Smart Young Lady, Qualified, wanted as Assistant; must be reliable and obliging at the Counter. Reply, stating age, references, wages required, photo if possible, and when free, 32/1, Office of this Paper.

NEAR Croydon.—Qualified Assistant wanted in a fortnight, outdoors (aged about 25); accustomed to good-class business; must be a reliable Dispenser, Counterman and Window-dresser. Apply, giving experience, references and salary required, to 30/27, Office of this Paper.

SOUTH COAST, near Portsmouth.—Unqualified Assistant, young, smart; good references essential; state experience and salary required; outdoors; photo (if possible); applications not answered within 7 days respectfully declined. 30/22, Office of this Paper.

A.—CAPABLE Assistant (male); must have had good Dispensing experience in high-class business; please state particulars fully; also when free. A. H. Price (Chemist), Ltd., 2 Guildford Road, Woking, Surrey.

A YOUNG, active, Unqualified male Assistant, of gentlemanly appearance, required for quick Cash business; must be a tactful Salesman and well up in Display work and Window-dressing; knowledge of Dispensing and Photographic (Sales) necessary; fullest particulars, experience, age, height, salary outdoors; applications not answered in 4 days declined with thanks. 30/48, Office of this Paper.

ASSISTANT required at once in Oxfordshire; busy N.H.I. and private Dispensing; permanency; state age and height; photo if possible. 31/3, Office of this Paper.

ASSISTANT, Unqualified, required immediately for busy N.H.I. and Private Dispensing in good-class business in Midlands; must be quick and accurate Dispenser and good Counterman; permanency; must be able to take charge of dispensing; state age, wages required, with photo and names of last two employers. 23/27, Office of this Paper.

ASSISTANT wanted for good-class country business; apply by letter, stating age, experience, salary required and references, and state whether Qualified or Unqualified. F. J. Janes, 5 Kingsbury Square, Aylesbury, Bucks.

JUNIOR Unqualified Assistant, either sex, to commence at once. Full particulars of age, height, experience and salary required to H. F. Ferriss, M.P.S., 349 High Road, Lee Green, S.E.12.

PHARMACIST required to manage a new Chemistry Department to be opened shortly. The applicant appointed must be a capable and experienced Manager, thoroughly versed in all branches of Pharmacy, Photography and Optics, accurate Dispenser, tactful and courteous. Apply, with photograph (to be returned) and copies only of testimonials, giving full particulars of previous experience, age, salary required, etc., to General Manager, Parkstone and Bournemouth Co-operative Society, Ltd., Longfleet House, Poole, Dorset.

QUALIFIED Assistant, young; able to take charge; good Salesman, accurate Dispenser, Window-dresser; moderate commencing salary, with commission; send full particulars, experience, age, wages, etc., with photo, to be returned. Davis, 111 Southgate Street, Gloucester.

QUALIFIED Chemist (over 30) required to Buy and take full charge Dispensing; £50-£100 cash security required (returnable on leaving); £4 and commission; splendid prospects; W.1 district. Apply 30/5, Office of this Paper.

QUALIFIED, good all-round man wanted at once. 105 Scotland Road, Liverpool.

QUALIFIED Manager and Unqualified Assistant for West End; foreign languages an advantage; keen Salesmen and good Window-dressers essential; salary and commission; applications not answered in 7 days declined. 268/693, Office of this Paper.

QUALIFIED Manager wanted to superintend small limited company; easy hours; two assistants kept; suit elderly gentleman. State full details of experience and references, with salary required, which must be reasonable, to Hayes Chemists, Ltd., 2 Market Street, St. Helens, Lancashire.

QUALIFIED Manager (35-45); used to quick N.H.I. Dispensing; married; working-class district; able to commence October 28; commencing salary £3 per week (with commodious house, rent and rates free) and substantial commission on increased turnover. Manton, Chemist, Meadowhead, Sheffield, 8.

UNQUALIFIED Assistant required for middle-class business in West Middlesex; must be a tactful Salesman and good Window-dresser; some time off may be arranged for study; interview required. Write, giving usual particulars, 30/17, Office of this Paper.

UNQUALIFIED Assistant wanted; must be used to good-class Counter trade; South of London. 268/694, Office of this Paper.

UNQUALIFIED Junior Assistant (under 24) required. State experience, salary required and when disengaged to H. Reynolds, 9 Becket Buildings, Worthing.

UNQUALIFIED Male Assistant, young, required immediately for good-class business in Sussex inland town; must be good Window-dresser and neat and accurate worker; easy hours; no Sunday duty. Particulars of experience, salary required and photo, if possible, to 31/20, Office of this Paper.

YOUNG Junior Male Assistant or Improver wanted, immediately, for Southern County business. Please send particulars of age, experience and salary required to 29/5, Office of this Paper.

YOUNG Qualified Assistant required; position at Baker Street, London. Write full particulars and salary to "J.," 35 Mowbray Road, London, N.W.6.

YOUNG Unqualified Assistant required (gentleman). Apply 6 Porchester Road, Bayswater, W.2.

WHOLESALE.

LEEDS Industrial Co-operative Society, Ltd., require the services of a capable man to take charge of the Drug Department Warehouse and Packing Department; applicants must have practical knowledge of up-to-date methods of stock-keeping; they must also be familiar with modern methods of packing Drugs and Pharmaceutical Specialities and able to control staff; previous experience of a similar job essential. Applications, stating age, experience, wages required and fullest particulars, to be addressed to The Secretary, Leeds Industrial Co-operative Society, Ltd., 10 Albion Street, Leeds, 1, endorsed "Drug Warehouse."

LONDON COUNTY COUNCIL.—Applications invited for appointment as Technical Assistant; to check inventories and review stocks of Surgical Equipment and Instruments in the Council's Hospitals; rate of pay 95s—5s.—120s. a week. Applicants must have had a good education and practical experience in the Manufacture and Repair of all kinds of Surgical Instruments. Application forms and further particulars obtainable (stamped addressed foolscap envelope necessary) from the Medical Officer of Health (Staff Division 2), County Hall, S.E.1, returnable 23rd October. Canvassing disqualifies.

LIVE Men required to represent Bond Street Firm Manufacturing Well-known Range of Beauty Preparations; vacancies still exist in Home and Eastern Counties, Midlands and Lancashire. Write fully, stating present occupation and connection among Stores, Chemists and Hairdressers, P.C.B. 179/6, Office of this Paper.

MANUFACTURING Chemists require Representatives, already calling on Stores, Chemists and Hairdressers, to carry sideline of Own-Name Beauty Preparations and a new range of Cosmetics. Write, giving fullest particulars, 29/10, Office of this Paper.

REPRESENTATIVE required for Surgical Rubberware; to cover Scotland, Cumberland, Northumberland, Westmorland and Durham; good prospects for active and persistent man with car; used to call on Chemists; liberal commissions and minimum weekly earning guaranteed. Write, giving full particulars, to 268/696, Office of this Paper.

REPRESENTATIVE required, on commission basis, for South England, also Norfolk, Suffolk and counties adjacent; one with good connection and carrying other lines; must be reliable and trustworthy; for line 20 years on market. 268/692, Office of this Paper.

SPECIALITY Salesman wanted for London and Home Counties; must have established connection with first-class Pharmacists, etc.; medical line; good salary and commission to the right man. Send all details of experience, etc., in confidence to 28/10, Office of this Paper.

PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 100 to 150 replies the task of returning photographs, testimonials, &c., is one of some difficulty.

TRAVELLERS REQUIRED for all U.K., for patented Safety Razor Blade, new, standard type, superior to all others; men who are well introduced in the various buying trades; commission basis only, but large commission on all orders from allotted districts; effective backing given by manufacturers. Write 268/695, Office of this Paper.

WOMAN required to make up Toilet Preparations and look after small staff; must have experience. Apply, stating age and wages required, to 30/37, Office of this Paper.

£3 PER WEEK Retainer plus commission after one week's trial; Representative with sound connection required to handle Sideline; easy selling; excellent repeats. Write, stating territory, connections, experience, Beaucaire Laboratories, 35 Vine Street, E.C.3.

COLONIAL, INDIAN AND FOREIGN.

BRITISH COLONY.—Young, single M.P.S. required as Assistant Manager in Gold Coast, prepared to sail October 30. Apply, stating age, full particulars of experience, and send photograph, to Secretary, West African Drug Co., Ltd., 40 Hanover Street, Liverpool, 1.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.A.A.—IMPROVER, just completed apprenticeship, desires situation with view to further experience. 30/34, Office of this Paper.

A.A.A.A.—QUALIFIED Lady, young, experienced, used to taking charge, keen, energetic, good Window-dresser, quick and reliable Dispenser, well educated, personality, requires position; Yorkshire preferred; salary £4 per week; free immediately. Wye, Margaret Ave., Bardsey, near Leeds. 'Phone: 160 Collingham Bridge.

A.A.A.—QUALIFIED Manager, experienced in Dispensing and all branches, now West End, desires position high-class Pharmacy, London or Suburbs. Watkins, 19 St. Philip's Road, Surbiton.

A.A.A.—QUALIFIED; reliable Salesman, Dispenser, Window-dresser; London experience; reasonable salary; disengaged. "Salesman," 54 Torrington Square, W.C.1.

A.A.A.—QUALIFIED Scot (25), keen Salesman, smart appearance, good personality, at present managing in London suburb, desires change as Manager or Senior; excellent references. 28/6, Office of this Paper.

A.A.—CAPABLE and energetic Assistant; tall; Unregistered; 30 years' experience in all capacities; used to staff control and take charge; permanency. Haigh, 175 Uxbridge Road, W.12.

A.A.—QUALIFIED (26); tall; fully reliable and competent; London preferred; seen by appointment. 30/12, Office of this Paper.

A.—SCOT (31), married, energetic, trustworthy, first-class experience in all branches, seeks position as Manager; excellent references; go anywhere; free. Mitchell, 5 The Parade, Southborough, Bromley, Kent.

A GREAT IDEA.—To Retail Chemists. Now your holiday is over, why not have a rest bodily and mentally by fixing up one or two days each month with me? The benefit would be worth the moderate expense. M.P.S.; 30 years' experience; unquestionable references; in reply, please state fee prepared to pay. "Wembley," 30/45, Office of this Paper.

ASSISTANT, Unqualified; experienced Dispensing, Counter; part-time, locum, permanency; London only; disengaged. Write "C. G.," 2A Yalding Road, Bermondsey, S.E.16.

ASSISTANT (23); experienced heavy N.H.I. Dispensing; brisk Counter; West End preferred; excellent references. Jones, 12 Argyle Road, E.15 .

ASSISTANT (38; single; 6 ft.), Salesman, Dispenser and Window-dresser, thorough West-End and City experience, requires permanency. "Tragacanth," 14 Grosvenor Park, S.E.5.

ASSISTANT (21), Unqualified, desires permanent situation; good address; 6 years' experience Counter, Window-dressing, Dispensing, Photo and Veterinary; any district; disengaged fortnight's notice; sound references; moderate salary; interview appreciated. 30/47, Office of this Paper.

ASSISTANT (29), Unqualified; 8 years last situation; undeniable references; Liverpool district preferred, not essential; quick Retail; Dispensing experience. 30/7, Office of this Paper.

BIRMINGHAM, London or Midlands.—Young Qualified man, with exceptional Photographic and Dispensing experience (10 years), free immediately for locum or permanency. Curran, 59 Vicarage Road, Smethwick.

CHEMIST, experienced, with profitable Proprietary, desires post and interest in London business where proprietary can be expanded. "Phenacetin," 31/7, Office of this Paper.

CHEMIST; thoroughly experienced and trustworthy; disengaged from October 13th; London or country; locum or permanent; interview specially invited. Apply 31/24, Office of this Paper.

DISPENSER (30), Qualified, lady, 7 years' experience with Hospitals, Institutions and Doctors, seeks permanent post; excellent testimonials. 29/29, Office of this Paper.

EXPERIENCED M.P.S.; all types of business; personality; locum or permanent; London, Southern England. Ian, 15 Lampont Road, Hounslow.

EXPERIENCED Qualified Chemist, reliable, trustworthy, desires short-hours occupation; anywhere; minimum £3 10s. Harris, 7 Wellesley Avenue, Hammersmith, W.6.

LADY (Apothecaries' Hall) desires post with Doctor or Chemist, or Assistant at Hospital; good references. 27/2, Office of this Paper.

LADY, as Assistant Dispenser to elderly Chemist; many years' experience, Unqualified; willing to assist in light household duties; middle-aged; seaside or country; disengaged. M. S., 62 Padwell Road, Southampton.

LADY Dispenser desires post; Hall qualification; experienced; knowledge Book-keeping, Typing; Brighton or near. 8 Prestonville Road, Brighton.

LADY Dispenser, young; Hall qualification; Hospital and Doctor experience; able to drive car; good testimonials; disengaged. M. Campbell, 1 Gwendolen Avenue, Putney, S.W.15. 'Phone: Putney 6055.

LADY, Qualified, requires post, locum or part-time; good general experience; would manage; free Nov. Pharmacist, 5 Randolph Gardens, N.W.6.

LADY, Qualified; 14 years' experience; excellent references; part-time preferred; London or local. Mutch, 55 Church Road, Bexleyheath.

LEICESTER.—Qualified (26), 7 years' experience, desires permanent post; good references; London or provinces; at present disengaged. Apply 30/30, Office of this Paper.

LIVERPOOL DISTRICT.—Capable and trustworthy Qualified Welshman (33) desires change as Manager or Senior in high-class business; highest references; will need to give month's notice. 28/5, Office of this Paper.

LOCUM or permanency; thoroughly experienced (40); reliable; good worker; disengaged. R. Lord, M.P.S., 19 Northcott Avenue, Wood Green, N.22.

LOCUM, permanency or view succession; tall (39); all-round experience; disengaged October 11th. M.P.S., 98 Newcomen Road, Wellingborough.

LOCUM, permanency; Qualified (39); all-round experience; disengaged; excellent reference. Julius Levi, M.P.S., 18 King's Road, Sedgley Park, Manchester.

LONDON.—Unqualified Assistant (Lady), fully trained, desires part-time post October-March; salary 35s.; some experience. 30/54, Office of this Paper.

MALE, Unqualified, desires post; Counter and Dispensing; sound reference; free now. J. Price, Bridge House, St. Davids.

MANAGER, Qualified, excellent all-round experience, seeks position as Manager or Buyer; French spoken; knowledge Continental Pharmacy. "Pharmacist," 80 Church Road, Acton, W.3. 'Phone: Acorn 1540.

MANAGER (36); married; good all-round experience; free any time, also for interview. Beck, 193 Harrow View, Harrow.

MANAGER (26); M.P.S., requires sound permanency; West Riding preferred (not essential); 4 years' Managership and buying experience; accustomed to heavy Dispensing and Counter; keen Window-dresser. 30/36, Office of this Paper.

MANAGER (27), Qualified, single, desires change; thoroughly capable and dependable; 4 years' successful management; highest references. W. A. Weare, 72 Jeffreys Road, S.W.4.

MEDALLIST (23), Qualified, single, requires managerial or progressive post with Manufacturing or Retail Chemist; all-round experience as Manager and Assistant; well recommended; London or West preferred. 29/28, Office of this Paper.

M.P.S. WANTS permanent Management; experienced; keen business man, all departments Pharmacy; at liberty. Galen, 52 Horseshoe Road, Pangbourne.

ONE-YEAR Apprenticeship (22), further experience required to one served; capable Dispenser and Salesman; small wage. P.C.B. 179/3, Office of this Paper.

PART I; smart; good Dispenser, Counter and Windows; available immediately. Alter, 66 Grovelands Road, N.13.

PART II Student desires employment Saturdays; all-round experience; Portsmouth or Southampton districts. "G. H.," Chaplins, Hyde Street, Winchester.

PART TIME.—Qualified; Square-trained; proceeding with studies; London preferred; tall; moderate salary; excellent references. 30/8, Office of this Paper.

PHARMACIST (23), first-class London experience, Qualified 2 years, considerable knowledge of Optics, desires post with view to gaining experience of latter. 30/35, Office of this Paper.

QUALIFIED Lady (24½); shortly disengaged; 7 years' experience Counter, Dispensing; good testimonials; London or Home Counties preferred. 31/18, Office of this Paper.

QUALIFIED Locum; experienced, West End, and every branch of business; competent, reliable; disengaged now. Pharmacist, 18 Stanway Gardens, Edgware.

QUALIFIED Scot (27), tall; 10 years' experience (London and country) Dispensing, Counter, Window-dressing; as Manager or Qualified Assistant; disengaged. "Chemist," 3 Parade, Bath Road, Hounslow West.

QUALIFIED (34); abstainer, locum or permanency; excellent references; free October 12. Leonard, 46 Clapham Road, Stockwell, S.W.9.

QUALIFIED (23); first-class Dispensing and Counter experience; excellent references; disengaged. Dodge, 140 Downhills Park Road, Tottenham, N.17.

QUALIFIED (22); permanency required; capable of taking charge; efficient; excellent references; good- or middle-class business. "R. R.," 30 Graham Mansions, Hackney, E.8.

QUALIFIED (26) seeks position as Assistant, with opportunity of helping in management; conscientious worker; experience includes good-class Dispensing and Photographic. Hodder, 74 South Street, Reading.

QUALIFIED (53), single; good all-round West End and Provincial experience; references good. "Chemist," Commercial House, Eye, Suffolk.

QUALIFIED; 14 years as Manager; London, Provinces and South Coast; married; exceptional Prescribing experience; Southern Counties preferred. Write 30/25, Office of this Paper.

SCOT (32), Qualified 1925, desires situation, any capacity; 18 years in Retail, 9 as Manager; trustworthy; excellent references; free now. Ferguson, Mossgiel, Eskbank, Midlothian.

SCOT (21), Unqualified; tall; good appearance; first-class Dispenser, Counter, Photographic, Display; references; disengaged; 45s.; go anywhere; South England preferred. "Assistant," c/o Ross, 28 Thistle Street, Aberdeen.

SCOTSMAN (25), Unqualified; tall, good appearance, congenial; middle- and high-class experience, all branches; accurate Dispenser, good Counterhand, Truss Fitter; high-class London position preferable; references; photograph available. 29/8, Office of this Paper.

SMART Young Qualified, high-class experience Provinces and West End, requires similar berth; Assistant or Manager; free soon. 31/13, Office of this Paper.

NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensue. Strict attention to this detail will be appreciated.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.
Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Road, Liverpool

STUDENT (24) requires evening and week-end work; used to heavy N.H.I. and Counter. Chapman, 31 Offley Road, S.W.9.

UNQUALIFIED elderly Assistant; 12 years last situation; N.H.I., Counter, Stock; highest references; permanency; married; disengaged. A., 9 Belmont Road, Clapham, S.W.4.

UNQUALIFIED, tall, single, abstainer; Dispensing, Counter, Photographics. Harris, 27 Lysways Street, Walsall.

UNQUALIFIED young man seeks situation Wholesale or Retail; 18 years' Counter work; excellent references; disengaged. S. Gardner, 33 Effingham Road, Lee, S.E.12.

UNQUALIFIED (26) requires Sunday and Wednesday night duty; 10 years' experience; trustworthy. 8 Waterhouse Road, Gorton, Manchester.

UNQUALIFIED (40); married, 25 years pharmacy; 13 years last post, used Family and Dispensing Business, urgently seeks permanency; free now. "Eyms," Sunnymount, Seymour Road, Lee-on-Solent, Hants.

UNQUALIFIED (36); 12 years' experience City and West End; progressive, energetic; disengaged. Williams, 132 Chadacre Road, Stoneleigh, Surrey.

WHOLE or Part-time Senior; West-End experience; good Salesman, accurate Dispenser, Photography; Unqualified; healthy; active; disengaged October 13. P.C.B. 179/4, Office of this Paper.

WHOLESALE.

A CAPABLE, responsible, well-known Gentleman (50) desires re-engagement to Represent firm of indisputable integrity and principles; Professional and/or Trade Propaganda; Sales; Hants and West; own car; proper credentials. "Stability," c/o General Gordon Hotel, Weymouth.

A REPRESENTATIVE with good-class connection Medical, Dental, Hospital and Pharmaceutical; resident in Edinburgh; very successful Salesman and Physician's Detailist; disengaged. Cascara, 8 Kaimes Road, Edinburgh, 12.

ADVERTISER (34) desires position in Wholesale House, South or Midlands, as Checker or Stock-keeper; 18 years' experience; hard worker; good timekeeper; highest references. 20/3, Office of this Paper.

AN Experienced Sales Manager, able to Sell and Organise Sales Staff, is open for engagement; good references and record; payment by results. D. A. Hoare, Burlington House, Burlington Street, Manchester.

ASSISTANT, experienced Toilets, Wet and Dry Counters, Stock-keeping; adaptable (age 27); disengaged. Reynolds, 150 King's Head Hill, Chingford.

ASSISTANT (mid-aged), experienced Retail, Hospital, Doctors, Institution, etc., seeks employment Wholesale; any capacity; reliable, adaptable. 65 Clondesley Road, N.1.

FIRST-CLASS Representative, with connection amongst Chemists and Doctors, London and Suburbs; disengaged; own car; propaganda and/or trade work. "F. P.," 26 Culmington Road, West Ealing, W.13. 'Phone: Ealing 5057.

GENTLEMAN (35; married) desires position, Administrative or otherwise, where 14 years' experience Medical Representation would be of advantage; experience covers Surgical Instruments, Dressings and Sundries, and Medical Propaganda. 21/5, Office of this Paper.

LIVE Salesman, calling on Chemists and Stores in South Wales and Bristol area, seeks agencies for any good proprietary line; room to carry stocks. P.C.B. 179/18, Office of this Paper.

QUALIFIED Manager (25), well educated, smart appearance and capable Salesman, desires position as Representative with a firm of repute; excellent references. 28/60, Office of this Paper.

QUALIFIED (33), married, own car, requires position offering greater scope as Representative with house of repute. P.C.B. 179/5, Office of this Paper.

LIMITED LIABILITY COMPANY REGISTRATIONS
The prudent man makes his position, and that of his dependents, secure by Limiting his Liability. Costs are not high if the work is placed with
THOS. WATTS & WALKER LTD.
who effect registrations North, South, East and West, and you are invited to communicate with them.
VALUABLE QUALIFIED EXPERIENCE TO DRAW UPON.
INTERESTS OF CLIENTS ALWAYS UPPERMOST.
ADVICE FREE AND PROMPTLY GIVEN.
SIMPLICITY IN PROCEDURE. GUARANTEED SATISFACTION.
Address: Oxford Chambers, 9 Oxford St., Manchester, 1. 'Phone: Central 6269

REPRESENTATIVE, M.P.S., keen and energetic, connection Scotland and North of England, sound experience Drug Trade, desires join first-class house, Drugs or Sundries; drive car; excellent credentials. 30/42, Office of this Paper.

TRAVELLER, exceptional connection Southern and Western Counties, Chemists and Stores, desires change; salary, commission and expenses. 29/15, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN.

BRITISHER (now visiting London), 30 years' residence Egypt, fluent French and Arabic, 7 years' experience Medical Propagandist, Egypt, Cyprus, Palestine, Syria and Irak, seeks Agencies, or would Travel for firm or group of firms in these countries; excellent references. P.C.B. 178/4, Office of this Paper.

FOR SALE.

(Articles to the value of £5-£50.)

NATIONAL Cash Register; prints details; adds cash; good reason for selling; bargain. Write R. Pierce, 40 Mandeville Houses, Chapel Street, N.1.

NATIONAL Cash Register (19s. 11¾d.), £9, bargain; 2 3-gallon Pear-shaped Carboys; 11 Red and White 80-oz. Ointment Show Jars; perfect; offers. Harper, 44 Trafford Road, Eccles.

MISCELLANEOUS.

CHEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass-fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate Glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., at competitive prices. F. MAUND & E. BERG (SHOWCASES), LTD., Shop Fitters and Shop Front Builders, 175/9 Old Street, London, E.C.1.

CHEMISTS' Shop Fittings in Oak or Mahogany; keenest prices; 8-ft., 10-ft., 12-ft. Drug Fittings; 6-ft., 8-ft. Wall Cases; 8-ft., 6-ft. Dispensing Screens; 6-ft., 8-ft., 10-ft. Serving Counters; 4-ft. Nests Counter Drawers; All-Glass Counters; Silent Salesmen; Bottles; Window Enclosures and Glass Shelves; send for rough sketches. GEORGE COOK, The Working Shopfitter, 27 Macclesfield Street, City Road, E.C.1. 'Phone: Clerk. 5371.

10 FT. Drug Fitting; 6 ft. Wall Case; 12 ft. Glass-fronted Counter, nests of Counter Drawers; 6 ft. Dispensing Screen and Counter; Counter Case; Personal Weighing Machine; Chair; all reconditioned and polished. PHILIP JOSEPHS & SONS, LTD., 90/92 St. John Street, Clerkenwell, E.C.1. Telephone: Clerkenwell 2191. "Pharmacy fitters for over a century."

£?—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting, Signs and Modern Interior Fittings. Apply for Lists, D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

EXCHANGE COLUMN.

FOR DISPOSAL.

(Articles up to the value of £5.)

MAHOGANY Dispensing Screen, comprising Mirror, 5 Display Cupboards, Nest of Drawers, etc.; good condition; shop space required; bargain, £2 15s. Smith, 374 Brockley Road, S.E.4.

WANTED.

OPTICAL Trial Case. State contents, lowest price, full particulars to 23/15, Office of this Paper.

TABLET Machines, Colton B. or similar; also Pill Mass Making Machine; must be in good condition; state full particulars and prices. 268/691, Office of this Paper.

12-FT. Glass-fronted Mahogany Counter and Drawers; reconditioned. Write "Croydon," 30/1, Office of this Paper.

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